CAPITOLATO TECNICO

GARA PER LA FORNITURA DI APPARATI HARDWARE E SOFTWARE PER LA GESTIONE DELL'ESERCIZIO FERROVIARIO SULLA RETE FERROVIENORD - RAMO MILANO

Allegato 1 – CATALOGO MATERIALE

P.LE CADORNA, 14
20123 MILANO
www.FERROVIENORD.it
C.F. E P.I.: 06757900151

Rev.	Data	Descrizione delle Modifiche	Redazione	Controllo	Approvazione
00	26/06/18	Prima emissione	Bariatti A.	Pini A.	Sioli M.
01					
02					
03					

Documento di proprietà di FERROVIENORD S.p.A. Non può essere riprodotto o portato a conoscenza di terzi senza autorizzazione.

Hard Disk e Adattatori

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Ricondizionato
Western Digital	WD1003FZEX	Black Performance Desktop Hard Drive, 1 TB	€ 82,11	-
Western Digital	WD2003FZEX	Black Performance Desktop Hard Drive, 2 TB	€ 136,06	-
Western Digital	WD10JPLX	Black Performance Mobile Hard Drive, 1 TB	€ 72,72	-
Western Digital	WD20EFRX	Red NAS Hard Drive, 2TB	€ 93,84	-
Western Digital	WD40EFRX	Red NAS Hard Drive, 4TB	€ 143,10	-
Western Digital	WD2001FFSX	Red Pro NAS Hard Drive, 2 TB	€ 132,54	-
Western Digital	WD4003FFBX	Red Pro NAS Hard Drive, 4 TB	€ 193,54	-
Western Digital	WD6003FFBX	Red Pro NAS Hard Drive, 6 TB	€ 263,91	-
Western Digital	WD101KFBX	Red Pro NAS Hard Drive, 10 TB	€ 445,72	-
Western Digital	WD1004FBYZ	Re DataCenter Hard Drive, 1 TB, SATA	€ 85,63	-
Western Digital	WD2004FBYZ	Re DataCenter Hard Drive, 2 TB, SATA	€ 124,79	-
Western Digital	WD4000FYYZ	Re DataCenter Hard Drive, 4 TB, SATA	€ 193,54	-
Western Digital	WD6001FSYZ	Re DataCenter Hard Drive, 6 TB, SATA	€ 258,05	-
Western Digital	WD10PURX	Purple Surveillance Hard Drive, 1 TB, SATA	€ 55,15	-
Western Digital	WD20PURX	Purple Surveillance Hard Drive, 2 TB, SATA	€ 73,90	-
Western Digital	WD30PURX	Purple Surveillance Hard Drive, 3 TB, SATA	€ 99,70	-
Western Digital	WD40PURX	Purple Surveillance Hard Drive, 4 TB, SATA	€ 129,09	-
Western Digital	WD60PURX	Purple Surveillance Hard Drive, 6 TB, SATA	€ 211,13	-
Lindy	51025	Convertitore IDE per Drive SATA	€ 25,00	-
Seagate	ST1000NX0333	Enterprise Capacity, SAS, 2.5", 6 Gbit/s, 1 TB	€ 208,00	-
Seagate	ST2000NX0273	Enterprise Capacity, SAS, 2.5", 6 Gbit/s, 2 TB	€ 269,00	-
Seagate	ST1000NX0313	Enterprise Capacity, SATA, 2.5", 6 Gbit/s, 1 TB	€ 179,00	-
Seagate	ST2000NX0253	Enterprise Capacity, SATA, 2.5", 6 Gbit/s, 2 TB	€ 245,00	-
Hitachi	HUC101830CSS200	HGST C10K1800 300GB Ultrastar, Serial Attached SCSI (SAS), 2.5"	€ 89,00	-
Hitachi	HUC101860CSS200	HGST C10K1800 600GB Ultrastar, Serial Attached SCSI (SAS), 2.5"	€ 110,00	-
Hitachi	HUC101812CSS200	HGST C10K1800 1.2TB Ultrastar, Serial Attached SCSI (SAS), 2.5"	€ 189,00	-
Samsung	MZ-76P256B/EU	SSD 860 PRO 250GB	€ 108,43	-
Samsung	MZ-76P512B/EU	SSD 860 PRO 500GB	€ 188,35	-
Samsung	MZ-76P1T0B/EU	SSD 860 PRO 1000GB	€ 375,81	-
Samsung	MZ-76P2T0B/EU	SSD 860 PRO 2000GB	€ 751,30	-
Lindy	43124	Alloggiamento per 4 Hard Disk USB 3.0 & eSATA	€ 180,00	-

Monitor

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
NEC	EA234WMi	23” 16:9@1920x1080 Widescreen LED-Backlit Desktop Monitor w/ IPS LCD Panel	€ 251,00	-
NEC	EA193Mi	19" 4:3@1280x1024 LED-backlit Desktop Monitor w/ IPS Panel and Integrated	€ 169,00	-
NEC	X464UNV-3	46" 16:9@1920x1080 LED-Backlit Ultra-Narrow Bezel Professional-Grade Large-	€ 2.564,00	-
LG	25UM58-P	Monitor 25", 21:9 UltraWide LED	€ 351,64	-
LG	29UC88-B	Monitor 29", 21:9 UltraWide LED	€ 376,23	-
LG	34WK500	Monitor 34", 21:9 UltraWide LED	€ 351,64	-

NAS					
Tipo	**Marca**	**Codice Prodotto**	**Descrizione**	**Prezzo Nuovo**	**Prezzo Ricondizionato**
NAS	QNAP	TVS-473E-4G	4-Bay Desktop Network Attached Storage unit, Redundant PSU	€ 809,90	-
NAS	QNAP	TS-463XU-RP-4G	4-Bay Rack-Mountable Network Attached Storage unit, Redundant PSU	€ 1.179,00	-
NAS	QNAP	TVS-871U-RP-I5-8G	8-Bay Rack-Mountable Network Attached Storage unit, Redundant PSU	€ 2.159,00	-

Networking CISCO

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
Cisco/HP	WS-CBS3120X-S (451357-001)	LAN Base, 16x1G backplane, 4x10/100/100M RJ45, 2x10G X2, 2 x StackWise	-	€ 208,00
Cisco	IE-3000-8TC	LAN Base, 8x10/100M RJ45, 2x1G Combo, no PoE	€ 760,07	€ 511,49
Cisco	IEM-3000-8TM	Expansion module for IE-3000, 4 x 10/100M electrical ports	€ 852,49	€ 340,10
Cisco	IEM-3000-4SM	Expansion module for IE-3000, 4 x 100M SFPs	€ 1.215,15	€ 680,20
Cisco	IEM-3000-8SM	Expansion module for IE-3000, 8 x 100M SFPs	€ 1.783,43	€ 680,20
Cisco	IEM-3000-4PC	Expansion module for IE-3000, 4 x 100M PoE/PoE+	€ 1.070,10	€ 856,08
Cisco	WS-C2960±8TC-L	8 10/100 + 1 T/SFP LAN Base Image	€ 391,27	€ 121,80
Cisco	WS-C2960C-8TC-L	8 10/100 + 1 T/SFP LAN Base Image	€ 317,70	€ 285,68
Cisco	WS-C2960±24TC-L	LAN Base, 24x10/100M RJ45, 2xCombo 1G, no PoE	€ 436,27	€ 196,00
Cisco	WS-C2960±48TC-L	LAN Base, 48x10/100M RJ45, 2xCombo 1G, no PoE	€ 901,12	€ 340,00
Cisco	WS-C2960±24PC-L	LAN Base, 24x10/100M RJ45, 2xCombo 1G, PoE 15W/port (max 370 W)	€ 943,92	€ 296,00
Cisco	WS-C2960±48PST-L	LAN Base, 48x10/100M RJ45, 2xCombo 1G, PoE 15W/port (max 370 W)	€ 2.090,16	€ 467,00
Cisco	WS-C2960G-8TC-L	7 10/100/1000 + 1 T/SFP LAN Base	€ 410,61	€ 214,20
Cisco	WS-C2960G-24TC-L	24 10/100/1000, 4 T/SFP LAN Base Image	-	€ 214,20
Cisco	WS-C2960G-48TC-L	48 10/100/1000, 4 T/SFP LAN Base Image	-	€ 314,16
Cisco	WS-C2960X-24TS-L	LAN Base, 24x10/100/1000M RJ45, 4x1G SFP, no PoE	€ 860,50	€ 721,00
Cisco	WS-C2960X-48TS-L	LAN Base, 48x10/100/1000M RJ45, 4x1G SFP, no PoE	€ 1.534,41	€ 1.227,53
Cisco	WS-C2960X-24TD-L	LAN Base, 24x10/100/1000M RJ45, 2x10G SFP, no PoE	€ 1.934,07	€ 1.547,26
Cisco	WS-C2960X-48TD-L	LAN Base, 48x10/100/1000M RJ45, 2x10G SFP, no PoE	€ 2.079,08	€ 1.663,27
Cisco	WS-C2960X-24PS-L	LAN Base, 24x10/100/1000M RJ45, 4x1G SFP, 30w/port (max 370W)	€ 1.196,85	€ 957,48
Cisco	WS-C2960X-48FPS-L	LAN Base, 48x10/100/1000M RJ45, 4x1G SFP, 30W/port (max 740W)	€ 2.678,94	€ 2.143,15
Cisco	C2960X-STACK	FlexStack-Plus module	€ 436,05	€ 380,00
Cisco	CAB-STK-E-0.5M	FlexStack-Plus stacking cable with a 0.5 m length	€ 69,06	€ 55,24
Cisco	CAB-STK-E-1M	FlexStack-Plus stacking cable with a 1 m length	€ 48,66	€ 38,92
Cisco	CAB-STK-E-3M	FlexStack-Plus stacking cable with a 3 m length	€ 97,34	€ 77,88
Cisco	WS-C3550-24-EMI	24 10/100 + 2 GBIC ports, EMI	-	€ 49,90
Cisco	WS-C3550-48-EMI	48 10/100 + 2 GBIC ports, EMI	-	€ 100,56
Cisco	WS-C3550-12T	10 10/100/1000 ports + 2 GBIC ports, EMI	-	€ 127,58
Cisco	WS-C3550-12G	10 GBIC ports + 2-10/100/1000 ports, EMI	-	€ 121,38
Cisco	WS-C3560-24TS-E	24 10/100 + 2 SFP + IPS Image	-	€ 185,64
Cisco	WS-C3560-48TS-E	48 10/100 + 4 SFP + IPS Image	-	€ 214,20
Cisco	WS-C3560V2-24TS-E	24 10/100 + 2 SFP + IPS Image	-	€ 239,90
Cisco	WS-C3560V2-48TS-E	48 10/100 + 4 SFP + IPS Image	-	€ 428,40
Cisco	WS-C3560G-24TS-E	24 10/100/1000T + 4 SFP + IPS Image	-	€ 142,80
Cisco	WS-C3560G-48TS-E	48 10/100/1000T + 4 SFP + IPS Image	-	€ 207,06

Cisco	WS-C3750-24TS-E	24 10/100 + 2 SFP + IPS Image	-	€ 185,64
Cisco	WS-C3750-48TS-E	48 10/100 + 4 SFP + IPS Image	-	€ 271,32
Cisco	WS-C3750G-12S-E	12 SFP + IPS Image	-	€ 542,64
Cisco	WS-C3750G-24TS-E1U	24 10/100/1000 + 4 SFP + IPS Image, 1RU	-	€ 357,00
Cisco	WS-C3750G-48TS-E	48 10/100/1000T + 4 SFP + IPS Image	-	€ 642,60
Cisco	WS-C3650-24TS-E	IP Services, 24x10/100/1000M, 4x1G SFP, no PoE	€ 2.874,93	€ 1.724,96
Cisco	WS-C3650-48TS-E	IP Services, 48x10/100/1000M, 4x1G SFP, no PoE	€ 7.349,10	€ 4.081,20
Cisco	WS-C3650-24TD-E	IP Services, 24x10/100/1000M, 2x10G SFP+, no PoE	€ 3.727,00	€ 2.236,20
Cisco	WS-C3650-48TQ-E	IP Services, 48x10/100/1000M, 4x10G SFP+, no PoE	€ 8.638,06	€ 5.182,84
Cisco	PWR-C2-250WAC	250W additional PSU for Catalyst 3650 series	€ 208,15	€ 163,25
Cisco	C3650-STACK-KIT	Cisco Catalyst 3650 Stack Module	€ 595,94	€ 476,75
Cisco	STACK-T2-50CM	Cisco StackWise-160 50CM Stacking Cable Spare	€ 49,00	€ 39,20
Cisco	STACK-T2-1M	Cisco StackWise-160 1M Stacking Cable Spare	€ 98,00	€ 78,40
Cisco	STACK-T2-3M	Cisco StackWise-160 3M Stacking Cable Spare	€ 147,10	€ 117,68
Cisco	WS-C3850-12XS-E	LAN Base, 12x10G SFP+, no PoE	€ 11.214,68	€ 4.081,17
Cisco	WS-C3850-24XS-E	LAN Base, 24x10G SFP+, no PoE	€ 12.863,58	€ 8.842,53
Cisco	PWR-C1-350WAC	350W additional PSU for Catalyst 3850 series	€ 244,90	€ 163,25
Cisco	STACK-T1-50CM	Cisco StackWise-480 50cm stacking cable spare	€ 36,65	€ 29,32
Cisco	STACK-T1-1M	Cisco StackWise-480 1m stacking cable spare	€ 75,87	€ 60,70
Cisco	STACK-T1-3M	Cisco StackWise-480 3m stacking cable spare	€ 113,37	€ 90,70
Cisco	GLC-FE-100FX	MMF 2km 100M SFP Module for 100M SFP ports (Cisco genuine)	€ 114,85	€ 28,80
Cisco	GLC-FE-100FX-C	MMF 2km 100M SFP Module for 100M SFP ports (Cisco compatible)	€ 35,00	-
Cisco	GLC-GE-100FX	MMF 2km 100M SFP Module for 1G SFP ports (Cisco genuine)	€ 122,50	€ 68,02
Cisco	GLC-GE-100FX-C	MMF 2km 100M SFP Module for 1G SFP ports (Cisco compatible)	€ 66,00	-
Cisco	GLC-T	1Gbase-T electrical SFP Module (Cisco genuine)	€ 220,52	€ 48,00
Cisco	GLC-SX-MM	MMF 300m 1G SFP Module (Cisco genuine)	€ 229,70	€ 18,00
Cisco	GLC-LH-SM	SMF 10km 1G SFP Module (Cisco genuine)	€ 366,75	€ 24,00
Cisco	GLC-ZX-SM	SMF 70km 1G SFP Module (Cisco genuine)	€ 1.957,73	€ 680,20
Cisco	SFP-10G-SR	MMF 50m 10G SFP Module (Cisco genuine)	€ 366,75	€ 204,00
Cisco	SFP-10G-LR	SMF 10km 10G SFPModule (Cisco genuine)	€ 952,79	€ 228,00
Cisco	SFP-10G-ER	SMF 40km 10G SFP Module (Cisco genuine)	€ 4.899,25	€ 680,40
Cisco	SFP-H10GB-CU1M	10G Twinax interlink cable, 1m long	€ 49,00	€ 25,00
Cisco	SFP-H10GB-CU2M	10G Twinax interlink cable, 2m long	€ 69,00	€ 38,00
Cisco	SFP-H10GB-CU3M	10G Twinax interlink cable, 3m long	€ 49,00	€ 34,00
Cisco	SFP-H10GB-CU5M	10G Twinax interlink cable, 5m long	€ 73,10	€ 44,15
Cisco	SFP-H10GB-ACU7M	10G Twinax interlink cable, 7m long, active	€ 176,40	€ 102,10
Cisco	SFP-H10GB-ACU10M	10G Twinax interlink cable, 10m long, active	€ 201,00	€ 133,95
Cisco	CVR-X2-SFP	TwinGig Converter Module	€ 137,80	€ 90,00
Cisco	CVR-X2-SFP10G	Cisco OneX Converter Module	€ 137,80	€ 90,00

Moduli Ottici Fibrestore

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
FiberStore	GLC-T	Cisco Compatible 10/100/1000BASE-T SFP Copper RJ-45 100m Transceiver	€ 28,22	-
FiberStore	GLC-SX-MM	Cisco Compatible 1000BASE-SX SFP 850nm 550m DOM Transceiver	€ 8,06	-
FiberStore	GLC-LH-SM	Cisco Compatible 1000BASE-LX/LH SFP 1310nm 10km DOM Transceiver	€ 9,40	-
FiberStore	GLC-EX-SM	Cisco Compatible 1000BASE-EX SFP 1310nm 40km DOM Transceiver	€ 18,82	-
FiberStore	GLC-ZX-SM	Cisco Compatible 1000BASE-ZX SFP 1550nm 80km Transceiver	€ 32,25	-
FiberStore	GLC-EZX-SM-120	Cisco Compatible 1000BASE-EZX SFP 1550nm 120km DOM Transceiver	€ 73,92	-
FiberStore	GLC-BX-10U	Cisco Compatible 1000BASE-BX BiDi SFP 1310nm-TX/1550nm-RX 10km DOM	€ 12,09	-
FiberStore	GLC-BX-10D	Cisco Compatible 1000BASE-BX BiDi SFP 1550nm-TX/1310nm-RX 10km DOM	€ 16,13	-
FiberStore	GLC-BX-20U	Cisco Compatible 1000BASE-BX BiDi SFP 1310nm-TX/1550nm-RX 20km DOM	€ 12,09	-
FiberStore	GLC-BX-20D	Cisco Compatible 1000BASE-BX BiDi SFP 1550nm-TX/1310nm-RX 20km DOM	€ 16,13	-
FiberStore	GLC-BX40-U-I	Cisco Compatible 1000BASE-BX-U BiDi SFP 1310nm-TX/1550nm-RX 40km DOM	€ 26,88	-
FiberStore	GLC-BX40-D-I	Cisco Compatible 1000BASE-BX-D BiDi SFP 1550nm-TX/1310nm-RX 40km DOM	€ 26,88	-
FiberStore	GLC-BX80-UA-I	Cisco Compatible 1000BASE-BX BiDi SFP 1490nm-TX/1550nm-RX 80km DOM	€ 63,16	-
FiberStore	GLC-BX80-DA-I	Cisco Compatible 1000BASE-BX BiDi SFP 1550nm-TX/1490nm-RX 80km DOM	€ 63,16	-
FiberStore	GLC-BX120-U	Cisco Compatible 1000BASE-BX BiDi SFP 1490nm-TX/1550nm-RX 120km DOM	€ 94,71	-
FiberStore	GLC-BX120-D	Cisco Compatible 1000BASE-BX BiDi SFP 1550nm-TX/1490nm-RX 120km DOM	€ 94,71	-
FiberStore	SFP-H10GB-CU3M	Cisco Compatible 3m (10ft) 10G SFP+ Passive Direct Attach Copper Twinax Cable	€ 20,16	-
FiberStore	SFP-10G-BXU-I	Cisco Compatible 10GBASE-BX10-U SFP+ 1270nm-TX/1330nm-RX 10km DOM	€ 65,86	-
FiberStore	SFP-10G-BXD-I	Cisco Compatible 10GBASE-BX10-D SFP+ 1330nm-TX/1270nm-RX 10km DOM	€ 65,86	-
FiberStore	SFP-10G-BX20U-I	Cisco Compatible 10GBASE-BX20-U SFP+ 1270nm-TX/1330nm-RX 20km DOM	€ 65,86	-
FiberStore	SFP-10G-BX20D-I	Cisco Compatible 10GBASE-BX20-D SFP+ 1330nm-TX/1270nm-RX 20km DOM	€ 65,86	-
FiberStore	SFP-10G-BX40U-I	Cisco Compatible 10GBASE-BX40-U SFP+ 1270nm-TX/1330nm-RX 40km DOM	€ 134,39	-
FiberStore	SFP-10G-BX40D-I	Cisco Compatible 10GBASE-BX40-D SFP+ 1330nm-TX/1270nm-RX 40km DOM	€ 134,39	-
FiberStore	SFP-10G-BX60U-I	Cisco Compatible 10GBASE-BX60-U SFP+ 1270nm-TX/1330nm-RX 60km DOM	€ 322,52	-
FiberStore	SFP-10G-BX60D-I	Cisco Compatible 10GBASE-BX60-D SFP+ 1330nm-TX/1270nm-RX 60km DOM	€ 322,52	-
FiberStore	SFP-10G-BX80U-I	Cisco Compatible 10GBASE-BX80-U SFP+ 1270nm-TX/1330nm-RX 80km DOM	€ 362,85	-
FiberStore	SFP-10G-BX80D-I	Cisco Compatible 10GBASE-BX80-D SFP+ 1330nm-TX/1270nm-RX 80km DOM	€ 362,85	-
FiberStore	SFP-10G-BX40U-I	Cisco Compatible 10GBASE-BX40-U SFP+ 1270nm-TX/1330nm-RX 40km DOM	€ 141,10	-
FiberStore	SFP-10G-BX40D-I	Cisco Compatible 10GBASE-BX40-D SFP+ 1330nm-TX/1270nm-RX 40km DOM	€ 141,10	-
FiberStore	AT-M-LCU	LC/UPC Singlemode Fixed Fiber Optic Attenuator, Male-Female, 5dB (10pcs/Pack)	€ 39,10	-
FiberStore	SM-LCU-LCU-SX-FS-1M-PVC	1m (3ft) LC UPC to LC UPC Simplex 2.0mm PVC(OFNR) 9/125 Single Mode Fiber Patch Cable	€ 1,87	-
FiberStore	SFP-H10GB-CU3M	Cisco Compatible 3m (10ft) 10G SFP+ Passive Direct Attach Copper Twinax Cable	€ 20,40	-

Industrial Networking

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
IEI	IMC-111PB	Industrial mini type Ethernet to fiber media converter with 1x10/100Base-T(X) to 1x100Base-FX fiber / 1x100Base-FX SFP socket	€ 130,00	-
AVAGO	HFBR-57E0	Multimode 2km 1300nm SFP Transceiver with LC connector for ATM, FDDI, Fast Ethernet and SONET OC-3/SDH STM-1	€ 60,00	-
IEI	IGMC-1011GP	Industrial Slim Type Gigabit Ethernet media converter	€ 120,00	-
Proscend	180-C	VDSL2 Modem for SFP slots / Central Office side (CO)	€ 75,00	-
Proscend	180-R	VDSL2 Modem for SFP slots / Customer Premise Equipment side (CPE)	€ 75,00	-

Dell PowerEdge R420

Tipo	Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
Server	Dell	Poweredge R420 4x3.5" bays	2 Intel Xeon E5-2407 2.20GHz, 10M Cache, 6.4GT/s QPI, No Turbo, 4C, 80W 8 8GB DDR3 Modul REG ECC 4 300gb 15000rpm Sas-12gbps 2.5inch (In 3.5inch Hybrid Carrier) Hot-plug 1 RAID PERC H310 1 iDrac 7 Enterprise Remote Access Card 2 Broadcom 5720 Dual Port 1Gb Network Interface Card 2 Redundant PSU 550W AC with Power Distribution Board 1 1u Sliding Rail Kit	-	€ 1.500,00
CPU	Dell	319-1184	Intel Xeon E5-2407 2.20GHz, 10M Cache, 6.4GT/s QPI, No Turbo, 4C, 80W	-	€ 137,50
Ram	Dell	A4051428	8GB PC3-10600 1333MHZ DDR3 1.35V Dual Rank 240-PIN Registered ECC	-	€ 60,00
Hard Drive	Dell	400-AJRX	300gb 15000rpm Sas-12gbps 2.5inch (In 3.5inch Hybrid Carrier) Hot-plug	€ 319,50	
Hard Drive	Dell	400-AJPE	600gb 10000rpm Sas-12gbps 2.5inch (In 3.5inch Hybrid Carrier) Hot-plug	€ 300,00	
Hard Drive	Dell	400-AJQM	1.8tb 10000rpm Sas-12gbps 2.5inch (In 3.5inch Hybrid Carrier) Hot-plug	€ 402,00	
Scheda Raid	Dell	405-AADQ	RAID PERC H310	€ 210,00	
Adattatore di Rete	Dell	540-BBGW	Broadcom 5720 Dual Port 1Gb Network Interface Card	-	€ 93,75
iDrac Card	Dell	565-BBBO	iDrac 7 Enterprise Remote Access Card	€ 97,00	€ 50,00
Alimentatore	Dell	0RYMG6	Redundant PSU 550W AC	€ 250,00	€ 175,00
Controller Alimentatori	Dell	00G8CN	Power Distribution Board	€ 95,00	€ 60,00
Ventola Raffreddamento	Dell	CMRFD-A00 (HR6C0)	Cooling Fan	€ 73,00	€ 36,25
Kit staffe	Dell	9D83F	1u Sliding Rail Kit	€ 131,25	€ 70,00

Server e Storage Blade HP

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
HP	412152-B21	HP C7000 Blade Enclosure with Rack Rails	-	€ 537,50
HP	508668-B21	HP C3000 Blade Enclosure with Rack Rails	-	€ 442,60
HP	411099-001	HP C7000 Power Supply 2250W 1-phase	-	€ 121,00
HP	500242-001	HP C7000 Power Supply 2450W 1-phase	-	€ 112,50
HP	660185-001	HP C3000 Power Supply 1200W 1-phase	-	€ 174,00
HP	412142-B21	BladeSystem c7000 Onboard Administrator	-	€ 120,00
HP	448589-B21	BladeSystem c3000 Onboard Administrator	-	€ 110,00
HP	AJ821A	HP B-series 8/24c SAN Switch BladeSystem c-Class	-	€ 512,00
HP/Cisco	451357-001	Cisco Catalyst Blade Switch 3120X for HP	-	€ 208,00
HP	BL460c G8	HP BL460c G8 2 x Xeon E5-2680 (2 x 8 core, 2.70GHz) 256GB RAM 2x146GB SFF SAS HDDs	-	€ 2.500,00
HP	403619-B21	QLogic QMH2462 4Gb FC HBA for HP c-Class BladeSystem	-	€ 65,00
HP	651281-B21	HP QMH2572 8Gb Fibre Channel Host Bus Adapter for BladeSystem c-Class	€ 680,00	€ 102,00
HP	445978-B21	NC360m Dual Port 1Gb NIC for c-Class BladeSystem	-	€ 66,00
HP	615729-B21	HP Ethernet 1Gb 4-port 366M Adapter	€ 390,00	€ 312,00
HP	K2R80A	HPE MSA 2040 ES SAN DC SFF Storage	€ 6.143,00	€ 4.600,00
HP	J9F48A	HPE MSA 1.2TB 12G SAS 10K 2.5in ENT HDD	€ 433,00	€ 380,00
HP	C8R23A	HPE MSA 2040 8Gb SW FC SFP 4 Pk	€ 235,00	€ 190,00
HP	C8R25A	HPE MSA 2040 10Gb SW iSCSI SFP 4 Pk	€ 714,00	€ 245,00
HP	AJ941A	HP StorageWorks D2700 6G SAS / 3G SATA Disk Shelf for 25x 2.5" hard disks	€ 1.950,00	€ 385,00
HP	581286-B21	HP 600 GB 6G Dual Port 10K SAS 2.5" Hot Swap ENT HDD	€ 273,90	€ 196,00
HP	371593-001	HP SFF 2.5" HDD Drive Caddy Tray with Screws	€ 35,00	€ 25,00
HP	AJ743A	HP 2012fc Dual Controller Modular Smart Array	-	€ 650,00
HP	AJ750A	HP MSA2000 Dual I/O 3.5 inch 12 Drive Enclosure (w/ two .6m SAS cables)	-	€ 460,00
HP	79-00000523	3.5' SAS FC Hard Drive HDD Tray Caddy for HP MSA2000 / P2000	-	€ 25,00

HP ProLiant Gen6

Tipo	Marca	Codice Prodotto	Descrizione		Prezzo Nuovo	Prezzo Ricondizionato
Server	HP	HP DL160 G6 LFF	2	Intel® Xeon® X5670	-	€ 979,00
			6	4GB (1X4GB) 1333MHZ PC3-10600 CL9 DUAL RANK ECC REGISTERED DDR3		
			4	250gb 7200rpm Sata 3.5inch Lff Midline Hot Swap Hard Disk Drive With Tray		
			1	NC360T PCI-E Dual Port Server Adapter Gigabit		
			1	Smart Array B110i		
			2	Power Supply 460 W Common Slot hot-plug		
			1	Rack Rails kit		
PCIe	HP	412648-B21	NC360T PCI-E Dual Port Server Adapter Gigabit		€ 87,50	€ 37,50
Server	HP	SE326M1 G6 SFF (DL180 G6 SFF 25-bays)	2	Intel Xeon X5670	-	€ 800,00
			6	DIMM, 4GB 2R x4 PC3-10600R-9		
			25	Empty HDD Trays SFF		
			1	HP Smart Array P410/512MB SAS Controller w/BBWC		
			2	750 Watt Hot Plug High Efficiency Common Slot Power Supply		
			1	Rack Rails kit		
Server	HP	SE326M1 G6 LFF (DL180 G6 LFF 12-bays)	2	Intel Xeon X5670	-	€ 830,00
			6	DIMM, 4GB 2R x4 PC3-10600R-9		
			12	Empty HDD Trays LFF		
			1	HP Smart Array P410/512MB SAS Controller w/BBWC		
			2	750 Watt Hot Plug High Efficiency Common Slot Power Supply		
			1	Rack Rails kit		
Cpu		588062-B21	Intel Xeon X5670 Six-core 2.93ghz 1.5mb L2 Cache 12mb L3 Cache 6.4gt/s Qpi		-	€ 137,50
Ram	HP	501534-001	DIMM, 4GB 2R x4 PC3-10600R-9		-	€ 31,25
Hard Drive	HP	459318-001	250gb 7200rpm 3.5inch Lff Midline Hot Swap Hard Disk Drive With Tray		€ 143,88	59.14.00
Hard Disk	HP	459319-001	500gb 7200rpm 3.5inch Lff Midline Hot Swap Hard Disk Drive With Tray		€ 218,75	€ 89,00
Trays	HP	378343-002	Empty HDD Trays SFF		-	€ 15,00
Trays	HP	373211-001	Empty HDD Trays LFF		-	€ 15,00
Blank Panel	HP	376384-001	SFF 2.5" Hard Drive Blank Panel for Proliant Servers		-	€ 12,50
Blank Panel	HP	467708-001	LFF 2.5" Hard Drive Blank Panel for Proliant Servers		-	€ 12,50
Controller RAID	HP	462864-B21	HP Smart Array P410/512MB SAS Controller w/BBWC		-	€ 61,25
Batteria Controller RAID	HP	462976-001	4.8V 650mAh Battery Module Battery Backed Write Cache (BBWC)		€ 132,00	€ 97,00
Alimentatore	HP	511777-001	460 Watt Hot Plug High Efficiency Common Slot Power Supply		€ 406,25	€ 43,75
Alimentatore	HP	512327-B21	750 Watt Hot Plug High Efficiency Common Slot Power Supply		€ 160,00	€ 80,00
Kit staffe	HP	573091-001	1u/2u Rail Mounting Hardware Kit		-	€ 57,00

HP ProLiant Gen7

Tipo	Marca	Codice Prodotto		Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
Server	HP	HP ProLiant DL380 G7 SFF	2	Intel Xeon X5690 Six-Core 64-bit processor 3.46 GHz	-	€ 1.400,00
			12	8GB, 1333 MHz, PC3-10600R-9, DDR3, dual-rank x4, 1.50 V, registered dual in-line memory module (RDIMM)		
			8	300GB - SAS - 2.5" - hot-plug dual-port -10K RPM - 6Gb/sec transfer rate		
			2	PSU 750 W - AC Common Slot (CS) 'Gold' hot-plug power supply		
			1	HP Smart Array P410/512MB SAS Controller w/BBWC		
			1	Rack Rails kit		
Ram	HP	501536-001	8GB, 1333 MHz, PC3-10600R-9, DDR3, dual-rank x4, 1.50 V, registered dual in-line		-	€ 40,00
Hard Drive	HP	507284-001	300GB - SAS - 2.5" - hot-plug dual-port -10K RPM - 6Gb/sec transfer rate		€ 105,00	€ 55,00
Trays	HP	378343-002	Empty HDD Trays SFF		-	€ 15,00
Blank Panel	HP	376384-001	SFF 2.5" Hard Drive Blank Panel for Proliant Servers		-	€ 12,50
Controller RAID	HP	462864-B21	HP Smart Array P410/512MB SAS Controller w/BBWC		-	€ 61,25
Batteria Controller RAID	HP	462976-001	4.8V 650mAh Battery Module Battery Backed Write Cache (BBWC)		€ 132,00	€ 97,00
Alimentatore	HP	511778-001	750 W AC Common Slot (CS) 'Gold' hot-plug power supply		€ 195,00	-
Ventola Raffreddamento	HP	496066-001	Hot-pluggable fan module assembly 60 mm		€ 50,00	-
Kit staffe	HP	616992-001	Rail kit		-	€ 57,00

HP ProLiant Gen8

Tipo	Marca	Codice Prodotto		Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
Server	HP	DL360e G8 SFF	2	Intel Xeon E5-2450L	-	€ 2.100,00
			12	16GB, 1333 MHz, PC3L-10600R-9, DDR3, dual-rank x4, 1.35 V, registered dual in-line memory module (RDIMM)		
			8	SFF Empty HDD Trays		
			1	HP Smart Array P420/1GB FBWC 6Gb 2-ports Int SAS Controller		
			2	460 W AC Common Slot (CS) hot-plug power supply		
			1	Rack Rails kit		
Server	HP	DL360e G8 LFF	2	Intel Xeon E5-2450L	-	€ 2.100,00
			12	16GB, 1333 MHz, PC3L-10600R-9, DDR3, dual-rank x4, 1.35 V, registered dual in-line memory module (RDIMM)		
			4	LFF Empty HDD Trays		
			1	HP Smart Array P420/1GB FBWC 6Gb 2-ports Int SAS Controller		
			2	460 W AC Common Slot (CS) hot-plug power supply		
			1	Rack Rails kit		

Server	HP	DL380p G8 SFF 8 bays	2	Intel Xeon E5-2450L	-	€ 3.750,00
			24	16GB, 1866 MHz, PC3-14900R-13, DDR3, quad-rank x4, 1.50 V, registered dual in-line memory module (RDIMM)		
			8	SFF Empty HDD Trays		
			1	HP Smart Array P420/1GB FBWC 6Gb 2-ports Int SAS Controller		
			2	460 W AC Common Slot (CS) hot-plug power supply		
			1	Rack Rails kit		
Server	HP	DL380p G8 LFF 8 bays	2	Intel Xeon E5-2450L	-	€ 3.750,00
			24	16GB, 1866 MHz, PC3-14900R-13, DDR3, quad-rank x4, 1.50 V, registered dual in-line memory module (RDIMM)		
			8	LFF Empty HDD Trays		
			1	HP Smart Array P420/1GB FBWC 6Gb 2-ports Int SAS Controller		
			2	460 W AC Common Slot (CS) hot-plug power supply		
			1	Rack Rails kit		
Ram	HP	664692-001	16GB, 1333 MHz, PC3L-10600R-9, DDR3, dual-rank x4, 1.35 V, registered dual in-line		-	€ 64,00
Ram	HP	715274-001	16GB, 1866 MHz, PC3-14900R-13, DDR3, quad-rank x4, 1.50 V, registered dual in-		-	€ 76,00
Trays	HP	651687-001	SFF Empty HDD Tray		-	€ 30,00
Trays	HP	651314-001	LFF Empty HDD Tray		-	€ 30,00
Blank Panel	HP	652991-001	SFF 2.5" Hard Drive Blank Panel for Proliant G8 Servers		-	€ 12,50
Blank Panel	HP	652994-001	LFF 2.5" Hard Drive Blank Panel for Proliant G8 Servers		-	€ 12,50
Hard Disk	HP	653955-001	300GB hot-plug dual-port SAS hard disk drive - 10,000 RPM, 6 Gb/s transfer rate,		€ 224,00	€ 87,50
Hard Disk	HP	653957-001	600GB hot-plug dual-port SAS hard disk drive - 10,000 RPM, 6 Gb/s transfer rate,		€ 304,00	€ 162,50
Hard Disk	HP	653971-001	900GB hot-plug dual-port SAS hard disk drive - 10,000 RPM, 6 Gb/s transfer rate,		€ 357,50	€ 227,50
Hard Disk	HP	653966-001	200GB hot-plug Solid State Drive (SSD) - SATA interface, 3 Gb/s transfer rate, 2.5-		€ 820,00	€ 379,00
Hard Disk	HP	653951-001	450GB hot-plug dual-port SAS hard disk drive - 15,000 RPM, 6 Gb/s transfer rate,		€ 524,00	€ 267,00
Hard Disk	HP	653952-001	600GB hot-plug dual-port SAS hard disk drive - 15,000 RPM, 6 Gb/s transfer rate,		€ 690,00	€ 297,00
Hard Disk	HP	653969-001	200GB hot-plug Solid State Drive (SSD) - SATA interface, 3 Gb/s transfer rate, 3.5-		€ 972,00	€ 379,00
Controller RAID	HP	631670-B21	HP Smart Array P420/1GB FBWC 6Gb 2-ports Int SAS Controller		€ 562,00	€ 131,25
Batteria Controller RAID	HP	660093-001	Battery Flashed Back Write Cache (Fbwc) Capacitor Pack 5.4v With 36 Inch Cable		€ 81,25	€ 50,00
Alimentatore	HP	656362-B21	460 W AC Common Slot (CS) hot-plug power supply		€ 275,00	€ 31,25
Kit staffe	HP	663200-B21	DL360e G8 Friction Rail Kit		€ 101,00	€ 89,00
Kit staffe	HP	720863-B21	DL380p G8 2U Large Form Factor (LFF) Ball Bearing Gen8 Rail Kit		€ 147,00	€ 90,00
Kit staffe	HP	720864-B21	DL380p G8 2U Small Form Factor (SFF) Ball Bearing Gen8 Rail Kit		€ 166,00	€ 109,00

IBM System X3650 M4

Tipo	Marca	Codice Prodotto	Descrizione		Prezzo Nuovo	Prezzo Ricondizionato
Server	IBM	System X3650 M4	2	Six-Core Intel Xeon E5-2630 2.30 GHz (15 MB cache) 95 W	-	€ 2.500,00
			12	8 GB (Dual-Rank) 1.35 V DDR3 1333 MHz RDIMM		
			8	300 GB 10000RPM 2.5-inch Hot-Swap hard drive		
			1	ServeRAID M5100 Series 512 MB flash /RAID 5		
			1	NetXtreme II 1000 Express Quad-Port Ethernet adapter		
			2	PSU 750 W AC		
			1	Integrated Management Module Advanced		
			1	Rack rails kit		
CPU	IBM	69Y5327	Six-Core Intel Xeon E5-2630 2.30 GHz (15 MB cache) 95 W		-	€ 106,25
Ram	IBM	49Y1415	8 GB (Dual-Rank) 1.35 V DDR3 1333 MHz RDIMM		€ 125,00	€ 56,25
Hard Drive	IBM	90Y8878	300 GB 10000RPM 2.5-inch Hot-Swap hard drive		€ 180,00	€ 73,75
Hard Drive	IBM	90Y8873	600 GB 10000RPM 2.5-inch Hot-Swap hard drive		€ 250,00	€ 212,50
Hard Drive	IBM	81Y9651	900 GB 10000RPM 2.5-inch Hot-Swap hard drive		€ 350,00	€ 331,25
Scheda Raid	IBM	46C9027	ServeRAID M5100 Series 512 MB flash /RAID 5		-	€ 56,25
Batteria Tampone Raid	IBM	81Y4491	Battery for IBM ServeRAID-M5100 Series		€ 375,00	€ 62,50
Alimentatore	IBM	94Y8071	PSU 750 W AC		€ 264,00	€ 106,25
Adattatore di Rete	IBM	49Y7947	NetXtreme II 1000 Express Dual-Port Ethernet adapter		-	€ 43,75
Adattatore di Rete	IBM	49Y7949	NetXtreme II 1000 Express Quad-Port Ethernet adapter		-	€ 61,25
Ventola Raffreddamento	IBM	94Y6620	Fan		€ 89,00	€ 31,25
Licenza	IBM	90Y3901	Integrated Management Module Advanced		€ 400,00	-
Kit staffe	IBM	94Y6625	Slide Rail Kit For System X3650 M4		€ 94,50	€ 40,00

PC e accessori

Tipo	Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
PC Industriale	Advantech	ARK-3510	Fanless Box PC	€ 750,00	-
Alimentatore	Advantech	96PSA-A84W12W6-1	Power supply for ARK-3510	€ 35,00	-
Mini PC	HP	1CB62ET#ABZ	HP EliteDesk 800 G3 Desktop Mini PC CPU Intel Core i7-7700	€ 892,00	-
Ram	HP	Z9H55AA	4GB DDR4-2400 RAM SoDIMM	€ 58,32	-
Ram	HP	Z9H56AA	8GB DDR4-2400 RAM SoDIMM	€ 100,30	-
Ram	HP	Z9H53AA	16GB DDR4-2400 RAM SoDIMM	€ 224,40	-
Ram	HP	Z9H59AA	HP 4GB DDR4-2400 DIMM	€ 58,32	-
Ram	HP	Z9H60AA	HP 8GB DDR4-2400 DIMM	€ 99,95	-
Ram	HP	Z9H57AA	HP 16GB DDR4-2400 DIMM	€ 224,40	-
Ram	Kingston	HX424S14IB/4	4GB 512M x 64-Bit DDR4-2400 CL14 260-Pin SODIMM	€ 58,22	-
Ram	Kingston	HX424S14IB2/8	8GB 1G x 64-Bit DDR4-2400 CL14 260-Pin SODIMM	€ 103,97	-
Ram	Kingston	HX424S14IB/16	16GB 2G x 64-Bit DDR4-2400 CL14 260-Pin SODIMM	€ 203,97	-
Ram	Kingston	HX321LS11IB2/4	4GB 512M x 64-Bit DDR3L-2133 CL11 204-Pin SODIMM	€ 50,07	-
Ram	Kingston	HX321LS11IB2/8	8GB 1G x 64-Bit DDR3L-2133 CL11 204-Pin SODIMM Kit	€ 96,46	-
Ram	Kingston	HX318C10FB/4	4GB 512M x 64-Bit DDR3-1866 CL10 240-Pin DIMM	€ 43,52	-
Ram	Kingston	HX318LC11FB/8	8GB 1G x 64-Bit DDR3L-1866 CL11 240-Pin DIMM	€ 82,73	-
Ram	Kingston	HX426C15FB/4	4GB 512M x 64-Bit DDR4-2666 CL15 288-Pin DIMM	€ 58,55	-
Ram	Kingston	HX426C16FB2/8	8GB 1G x 64-Bit DDR4-2666 CL15 288-Pin DIMM	€ 102,34	-
Ram	Kingston	HX426C16FB/16	16GB 2G x 64-Bit DDR4-2666 CL17 288-Pin DIMM	€ 159,99	-
Pc	HP	1HK16ET#ABZ	HP EliteDesk 800 G3 Tower PC	€ 958,00	-
Scheda Video	MATROX	9140LP	LP PCIe x16 quad graphics card	€ 490,00	-
Adattatore di Rete	Tp-Link	UE300	Adattatore di rete Gigabit Ethernet USB 3.0	€ 25,00	-
Mini PC	Intel	NUC7i3BNH	Mini PC kit Intel® NUC, CPU Intel® Core™ i3	€ 270,58	-
Mini PC	Intel	NUC7i5BNH	Mini PC kit Intel® NUC, CPU Intel® Core™ i5	€ 358,82	-
Mini PC	Intel	NUC7i7BNH	Mini PC kit Intel® NUC, CPU Intel® Core™ i7	€ 476,47	-

Thin Client

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
HP	2RC37EA	HP T630 Thin Client with HP ThinPRO OS	€ 452,00	
HP	741346-001	Alimentatore per HP T630	€ 47,00	-
HP	708992-001	Alimentatore per HP T620	€ 45,00	-
HP	684792-001	Alimentatore per HP T610	€ 27,00	-
HP	587303-001	Alimentatore per HP T510	€ 29,00	-

Stampanti

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
Samsung	Xpress M2825ND	B/N - Stampante di Rete	€ 130,25	-

USB Handset

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
Horst Plathosys	CT-220 PRO	USB Handset	€ 200,00	-

Armadi Rack

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
Produttori Vari	RACK_SERVER_Small	Armadio Rack da 19", 12 Unità, profondità interna minima utile 90cm, pannelli	€ 445,00	-
Produttori Vari	RACK_SERVER_Medium	Armadio Rack da 19", 22 Unità, profondità interna minima utile 90cm, pannelli	€ 580,00	-
Produttori Vari	RACK_SERVER_Full	Armadio Rack da 19", 50 Unità, profondità interna minima utile 90cm, pannelli	€ 750,00	-

Videosorveglianza

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
HikVision	DS6716HQHI-SATA	Encoder 16ch, CVBS/HD-TVI, with empy HDD slot	€ 800,00	-
Dahua	DH-NVR4216-16P	16CH 1U 16PoE Network Video Recorder, 200 Mbit/s IP video input, with empy HDD	€ 500,00	-
Samsung/Hanwa	SMT-1935	19" LED High Definition CCTV Security Monitor	€ 210,00	-
Axis	T8705	Video Decoder 1 x HDMI-Out	€ 235,00	-
Axis	5008-001	PoE Active Splitter 5 V AF	€ 54,00	-

Commutatore di Alimentazione

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
APC	AP4421	RACK ATS, 230V, 10A, C14 IN, (12) C13 OUT	€ 691,00	-
APC	AP4423	RACK ATS, 230V, 16A, C20 IN, (8) C13 (1) C19 OUT	€ 839,00	-

Alimentatori Industriali

Marca	Codice Prodotto	Descrizione	Prezzo Nuovo	Prezzo Ricondizionato
PULS	ML15.051	Uscita 5V DC, 3A, monofase 100-240V AC	€ 42,56	-
PULS	ML30.101	Uscita 5V DC, 5A, monofase 100-240V AC	€ 88,44	-
PULS	ML50.102	Uscita 12V DC, 4.2A, monofase 100-240V AC	€ 101,20	-
PULS	ML100.102	Uscita 12V DC, 7.5A, monofase 100-240V AC	€ 152,13	-
PULS	ML50.100	Uscita 24V DC, 2.1A, monofase 100-240V AC	€ 81,40	-
PULS	ML100.100	Uscita 24V DC, 4.2A, monofase 100-240V AC	€ 119,35	-
PULS	CP5.241	Uscita 24V DC, 5A, monofase 100-240V AC	€ 129,36	-
PULS	CP10.241	Uscita 24V DC, 10A, monofase 100-240V AC	€ 181,72	-
PULS	ML50.105	Uscita 48V DC, 1.05A, monofase 100-240V AC	€ 101,20	-
PULS	ML100.105	Uscita 48V DC, 2.1A, monofase 100-240V AC	€ 127,20	-
PULS	QS10.481	Uscita 48V DC, 5A, monofase 100-240V AC	€ 238,92	-
PULS	QS20.481	Uscita 48V DC, 10A, monofase 100-240V AC	€ 291,50	-