

NO	JENIS/NAMA BARANG	MERK	SATUAN	HARGA
M.	PERALATAN PERHUBUNGAN			
	1. TRAFFIC LIGHT			
	Lampu Isyarat (box + lampu LED)			
	Lampu Isyarat 2 Aspek Ø 20 cm		unit	4.400.000
	Lampu Isyarat 3 Aspek Ø 20 cm		unit	5.270.000
	Lampu Isyarat 2 Aspek Ø 30 cm		unit	4.750.000
	Lampu Isyarat 3 Aspek Ø 30 cm		unit	6.350.000
	Lampu			
	a. Bohlam for traffic signal		buah	45.000
	b. LED 20 cm		buah	2.000.000
	c. LED 30 cm		buah	2.500.000
	Box Lampu			
	a. 1 fasa 20 cm		buah	1.750.000
	b. 1 fasa 30 cm		buah	1.960.000
	c. 2 fasa 20 cm		buah	2.400.000
	d. 2 fasa 30 cm		buah	2.750.000
	e. 3 fasa 20 cm		buah	3.270.000
	f. 3 fasa 30 cm		buah	3.850.000
	g. armature		buah	250.000
	Lensa			
	a. Lensa Kaca 20 cm		buah	350.000
	b. Lensa Kaca 30 cm		buah	400.000
	c. Karet seal lensa		buah	55.000
	Controller			
	a. Controller/modul traffic light manual		buah	25.000.000
	b. Controller/modul traffic light digital		buah	45.000.000
	c. Box controller/modul traffic light		buah	4.000.000
	d. Setting controller/modul traffic light		kali	2.500.000
	e. Controller/modul warning light		buah	4.500.000
	f. Setting controller/modul warning light		kali	500.000
	Timer			
	a. Timer thaben 24 hours (analog)		buah	1.250.000
	b. Timer thaben 24 hours (digital)		buah	1.750.000
	c. Countdown Timer		buah	15.000.000
	Kabel			
	a. Hantaran tiang NYY-NYO 4x0.75mm		meter	40.000
	b. Hantaran tiang NYY-NYO 4x2.5mm		meter	45.000
	c. Hantaran PLN LVTC 2x10mm		meter	92.500
	Tiang			
	a. tiang lengkung galvanis		buah	6.600.000
	b. tiang lengkung galvanis (polygon)		buah	7.800.000
	c. tiang lurus galvanis		buah	5.500.000
	d. tiang lurus galvanis (polygon)		buah	5.750.000
	e. patok pengaman		buah	375.000
	Pengadaan Warning Light			
	a. Warning Light		unit	20.000.000
	b. Warning Light (solar cell, tiang lengkung, 2 aspek LED)		unit	32.500.000
	c. Warning Light (solar cell, tiang lurus, 2 aspek LED)		unit	30.000.000
	Pengadaan Traffic Light			
	a. Simpang tiga		unit	180.000.000
	b. Simpang tiga (solar cell, counter, sistem wireless, rambu, marka).		unit	300.000.000
	c. Simpang empat		unit	200.000.000
	d. Simpang empat (solar cell, counter, sistem wireless, rambu, marka).		unit	340.000.000
	e. Simpang lima		unit	250.000.000

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	2. RAMBU-RAMBU LALU LINTAS			
	Rambu Diameter 60 cm			
	a. Daun rambu diameter 60 cm		buah	356.500
	b. Papan tambahan		buah	90.000
	c. Rambu diameter 60 cm (SATU SISI)		unit	695.500
	d. Rambu diameter 60 cm (DUA SISI)		unit	968.000
	e. Rambu portabel diameter 60 cm		unit	453.500
	f. Water barrier (pemisah jalan portable)		unit	1.750.000
	Rambu Diameter 90 cm			
	a. Daun rambu diameter 90 cm		buah	390.000
	b. Papan tambahan		buah	90.000
	c. Rambu diameter 90 cm		unit	907.500
	d. Rambu portabel diameter 90 cm		unit	726.000
	Rambu Kantilever Tipe F diameter 90 cm		unit	4.235.000
	Rambu Pendahulu Penunjuk Jurusan (RPPJ)			
	a. ukuran 90 x 130 cm (tipe tiang ganda, dia 2")		buah	1.936.000
	b. ukuran 100 x 140 cm (tipe F, dia 4")		buah	4.840.000
	c. ukuran 120 x 160 cm		buah	5.225.000
	d. ukuran 120 x 180 cm		buah	6.050.000
	e. ukuran 120 x 200 cm		buah	7.150.000
	f. ukuran 120 x 240 cm		buah	7.700.000
	g. tiang portal bentang 18 m		buah	121.000.000
	3. KELENGKAPAN JALAN			
	Marka jalan (thermoplastik)		m2	126.500
	Delineator		buah	495.000
	Guardrail (pagar pengaman jalan)		meter	1.650.000
	Kerucut lalu lintas (traffic cone, uk. 90 cm)		buah	522.500
	Kerucut lalu lintas (traffic cone, uk. 75 cm)		buah	495.000
	Kerucut lalu lintas (traffic cone, uk. 60 cm)		buah	467.500
	Paku jalan (uk. 10 x 10 x 2 cm)		buah	291.500
	Paku jalan (uk. 10 x 12 x 2 cm)		buah	297.000
	Paku jalan (paku bulat)		buah	275.000
	Reflektor (mata kucing)		buah	60.500
	Reflektor high intensity grade uk. 10x20 cm		buah	71.500
	Cermin Tikungan (cembung)		buah	2.750.000
	Aplikator marka jalan		unit	40.000.000
	Lampu Penerangan Jalan Umum (LPJU) konvensional		buah	14.000.000
	Lampu Penerangan Jalan Umum (LPJU) tenaga surya		buah	30.000.000
	4. PENGADAAN ALAT UJI KENDARAAN BERMOTOR			
	Alat Uji CO/HC Tester Portabel		unit	150.000.000
	Alat Uji Smoke Tester Portabel		unit	150.000.000
	Timbangan portable 20 ton		unit	225.000.000
	Timbangan portable 10 ton		unit	200.000.000
	5. BAHAN UJI KENDARAAN			
	- Buku uji		Buah	8.000
	- Plat uji dan perlengkapannya		Keping	3.500
	- Kertas emisi		Dos	50.000
	- Stiker plat samping.		Lembar	12.500
	6. PEMELIHARAAN ALAT UJI KENDARAAN DAN LALULINTAS			
	1. Pemeliharaan/Kalibrasi alat uji kendaraan bermotor			
	a. Smoke tester			3.000.000
	b. CO & HC Analyzer			3.000.000
	c. Head Light Tester			2.000.000
	d. Side Slip Tester			3.000.000

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	e. Axle load tester			3.000.000
	f. Speedometer & Brake Tester			4.000.000
	g. Sound Level Meter			5.000.000
	h. Play Detector			
	2. Pemeliharaan alat pemberi isyarat lalu lintas (APILL)			
	a. Controller / Modul Traffic light			5.000.000
	b. Controller / Modul warning light			1.000.000
	c. Pengecatan tiang			
	- Tiang lengkung			125.000
	- Tiang lurus			100.000
	- Patok pengaman			65.000
	PERALATAN JARINGAN LAN/WAN			
	1. RADIO MIKROTIK			
	- ROUTERBOARD 800 paket + 1 miniPCI 65 mwatt	Mikrotik	unit	UP
	- ROUTERBOARD 800 paket + 2 miniPCI 65 mwatt	Mikrotik	unit	UP
	- ROUTERBOARD 800 paket + 3 miniPCI 65 mwatt	Mikrotik	unit	UP
	- ROUTERBOARD 800 paket + 4 miniPCI 65 mwatt	Mikrotik	unit	UP
	- ROUTERBOARD 433 paket + 1 miniPCI 65 mwatt	Mikrotik	unit	UP
	- ROUTERBOARD 433 paket + 2 miniPCI 65 mwatt	Mikrotik	unit	UP
	- ROUTERBOARD 433 paket + 3 miniPCI 65 mwatt	Mikrotik	unit	UP
	- ROUTERBOARD 433AH paket + 1 miniPCI 65 mwatt	Mikrotik	unit	UP
	- ROUTERBOARD 433AH paket + 2 miniPCI 65 mwatt	Mikrotik	unit	UP
	- ROUTERBOARD 43AH3 paket + 3 miniPCI 65 mwatt	Mikrotik	unit	UP
	- ROUTERBOARD 411 (WO411-A1)	Mikrotik	unit	UP
	- ROUTERBOARD 411AH (WO411AH-A1)	Mikrotik	unit	UP
	- ROUTERBOARD 411AR (WO411AR-A1)	Mikrotik	unit	UP
	- ROUTERBOARD 411AR (WO411-A2)	Mikrotik	unit	UP
	- ROUTERBOARD 411L (WO411L-A1)	Mikrotik	unit	UP
	- ROUTERBOARD 411U (WO411U-A1)	Mikrotik	unit	UP
	- ROUTERBOARD 411UAHR (WO411UAHR-A2)	Mikrotik	unit	UP
	- ROUTERBOARD 411UAHR (WO411UAHR-A1)	Mikrotik	unit	UP
	ASESORIES			
	- mmCX		unit	UP
	- Ufl		unit	UP
	- Connector sma to sma		unit	UP
	- Pig Tail		unit	UP
	- POE		unit	UP
	- MMCX to Ufl		unit	UP
	BOX			
	- MP-IP56		unit	UP
	- Tibox T-1525 IP66 25x15x10cm (komplit bracket & insulator)		unit	UP
	- Nano RF Box 2.4 GHz; 5,8 GHz		unit	UP
	- Nano RF Box 2,4 GHz; 5,8 GHz (Mimo)		unit	UP
	- StationsBox ® Inspot		unit	UP
	- Station Box XL 5 (MIMMO)		unit	UP
	- Station Box XL 2 (MIMMO)		unit	UP
	ADAPTOR			
	- 24 volt 0,8 A		unit	187.500
	- 24 volt 1,6 A		unit	281.250
	- 48 volt 0,9 A		unit	281.250
	MINI-PCI			
	DBii F52n-PRO Wireless Minipci 500mW ABGN (F52N-PRO)	Mikrotik	unit	UP
	DBii-F20-PRO Wireless Minipci 500mW BG (F20-PRO)	Mikrotik	unit	UP
	DBii-F50-PRO Wireless Minipci 500mW AG (F50-PRO)	Mikrotik	unit	UP
	Gigabit Ethernet 4 Ports PCI-e (Atheros) (RB44GE)	Mikrotik	unit	UP
	R2N Wireless Minipci 350mW BGN (R2N)	Mikrotik	unit	UP
	R52 Wireless Minipci 65mW ABG (R52)	Mikrotik	unit	UP
	R52H Wireless Minipci 350mW ABG (R52H)	Mikrotik	unit	UP
	R52HN Wireless Minipci 350mW ABGN (R52Hn)	Mikrotik	unit	UP
	R52N Wireless Minipci 200mW ABGN (R52N)	Mikrotik	unit	UP

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	R5H Wireless Minipci 350mW AG (R5H)	Mikrotik	unit	UP
	R5SHPN Wireless Minipci 800mW AN (R5SHPN)	Mikrotik	unit	UP
	SR2 Wireless Minipci 400mW BG (SR2)	Mikrotik	unit	UP
	SR5 Wireless Minipci 400mW AG (SR5)	Mikrotik	unit	UP
	XR2 Wireless Minipci 600mW BG (XR2)	Mikrotik	unit	UP
	XR5 Wireless Minipci 600mW AG (XR5)	Mikrotik	unit	UP
	2. ANTENA OUTDOOR			
	Antena Gride			
	Grid Hyperlink/L-Com 2.4Ghz 24dB HG2424G-NF	Hyperlink	unit	UP
	Grid Hyperlink/L-Com 5.8GHz 27dB HG5827G	Hyperlink	unit	UP
	Grid Kenbotong 2.4Ghz 24dB TDJ-2400	Kenbotong	unit	UP
	Grid Kenbotong 2.3-2.4Ghz 24dB TDJ-2325SPL9A	Kenbotong	unit	UP
	Grid Kenbotong 2.4Ghz 27dBi TDJ-2400SPD12	Kenbotong	unit	UP
	Grid Kenbotong 5.8GHz 27dB TDT5800SPL6	Kenbotong	unit	UP
	Grid Kenbotong 5.8GHz 30dB TDT5800SPL9	Kenbotong	unit	UP
	Grid TPLink 2.4GHz 24dB TL-ANT2424B	TPLink	unit	UP
	TPLink TL-ANT5830B 5.8GHz 30dB	TPLink	unit	UP
	Ubiquiti AirGrid M2HP 2,4Ghz 16dBi Antenna (RADIO 630mW+ADAPTOR POE 24V)	Ubiquiti	unit	UP
	Ubiquiti AirGrid M2 2,4Ghz 20dBi Antenna (RADIO 100mW+ADAPTOR POE 24V)	Ubiquiti	unit	UP
	Ubiquiti AirGrid M2-HP 2,4Ghz 20dBi	Ubiquiti	unit	UP
	Ubiquiti AirGrid M5 5.8Ghz 23dBi Antenna (RADIO 100mW+ADAPTOR POE 24V)	Ubiquiti	unit	UP
	Ubiquiti AirGrid M5HP 5.8Ghz 23dBi Antenna (RADIO 316mW+ADAPTOR POE 24V)	Ubiquiti	unit	UP
	Ubiquiti AirGrid M5 5.8Ghz 27dBi Antenna (RADIO 100mW+ADAPTOR POE 24V)	Ubiquiti	unit	UP
	Ubiquiti AirGrid M5HP 5.8Ghz 27dBi Antenna (RADIO 316mW+ADAPTOR POE 24V)	Ubiquiti	unit	UP
	Feed Horn 25dB	Ubiquiti	unit	UP
	Antena Yagi			
	Yagi 2.4GHz 16 dBi (lokal)		unit	UP
	Yagi Outdoor 9dBi TPLink TL-ANT2409A	TPLink	unit	UP
	Yagi Outdoor 14dBi TPLink TL-ANT2414A	TPLink	unit	UP
	Yagi Grid EVDO/3G 85dB TXR185 Triple Driven + cable 15m + pigtail		unit	UP
	Yagi Grid EVDO/3G 85dB TXR185 Triple Driven + cable 15m + pigtail		unit	UP
	Yagi EVDO/3G 45dB TXR145 Dual Driven + cable 15m + pigtail		unit	UP
	Antena Omni			
	Omni Slotted 2.4GHz 19dBi 360"		unit	UP
	Omni Slotted 2.4GHz 22dBi 360"		unit	UP
	Omni Slotted 2.4GHz 22dBi 360"		unit	UP
	Omni 2.4GHz 15dBi Hyperlink HG2415U-PRO	Hyperlink	unit	UP
	Omni UBNT AirMax 2.4Ghz 13dBi AMO-2G13	UBNT	unit	UP
	Omni UBNT AirMax 5.8Ghz 13dBi AMO-5G13	UBNT	unit	UP
	Omni 2.4Ghz 15dBi Kenbotong TDJ-2400ATC15	Kenbotong	unit	UP
	Omni 5.8Ghz 12dB Kenbotong TQJ-5800AD12	Kenbotong	unit	UP
	Omni 2.4Ghz 15dBi VEZATech VOA2415	Vezatech	unit	UP
	Omni VEZATech 5.8Ghz 12dBi VOA5812	Vezatech	unit	UP
	Omni Directional 2.4GHz 17dBi (lokal)		unit	UP
	Omni Directional 5.8Ghz 17dB (lokal)		unit	UP
	Omni 2.4GHz 15dBi TPLink TL-ANT2415D	TPLink	unit	UP
	Omni 2.4GHz 12dB TPLink TL-ANT2412D	TPLink	unit	UP
	Omni 2.4GHz 10dB JB-Omni		unit	UP
	Omni Portable EVDO / HSDPA 7dBi		unit	UP
	Omni Portable EVDO / HSDPA 9dBi		unit	UP
	Omni Portable EVDO / HSDPA 11dBi		unit	UP
	Omni Portable EVDO / HSDPA 15dBi		unit	UP

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	Omni Indoor 8dBi TPLink TL-ANT2408C	TPLink	unit	UP
	Omni Indoor 8dBi TPLink TL-ANT2408CL (tanpa docking)	TPLink	unit	UP
	Antena Sektoral			
	Sectoral Array 2.4Ghz 20dBi 120" / 180" (Polarisasi Vertikal)		unit	UP
	Sectoral Array 5.8Ghz 20dB 120"		unit	UP
	Sectoral Waveguide 2.4GHz 19dB 120" / 180"		unit	UP
	Sectoral Waveguide 2.4GHz 22dB 120" / 180"		unit	UP
	Sectoral Waveguide 5.8Ghz 22dB 120"		unit	UP
	Deliberant APC 2M-90 (2.4Ghz 1000mW, 16dBi 100" Dual Polarized MIMO Sectoral)	APC	unit	UP
	Deliberant APC 5M-90 (5Ghz 800mW, 18dBi 90" Dual Polarized MIMO Sectoral)	APC	unit	UP
	Sectoral UBNT AirMax 2.4Ghz 15dB 120"	UBNT	unit	UP
	Sectoral UBNT AirMax 2.4Ghz 16dB 90"	UBNT	unit	UP
	Sectoral UBNT AirMax 5.8Ghz 16dB 120"	UBNT	unit	UP
	Sectoral UBNT AirMax 5.8Ghz 17dB 90"	UBNT	unit	UP
	Sectoral UBNT AirMax 5.8Ghz 19dB 120"	UBNT	unit	UP
	Sectoral Kenbotong 2.4Ghz 16dB 120" TDJ-2400J16A	Kenbotong	unit	UP
	Sectoral Kenbotong 5.8Ghz 17dB 90" TDJ-5158i	Kenbotong	unit	UP
	Sectoral 2.4Ghz 20dBi 120" Hyperlink / L-Com HG2420P-120	Hyperlink	unit	UP
	Sectoral Dual Band 2.4 / 5.8Ghz 14dB 90" Hyperlink / L-Com HG2458-14P-090	Hyperlink	unit	UP
	Patch Panel			
	2.4 GHz Flat Panel 20,5 dBi Antenna (AFP24-20)		unit	UP
	5.2-5.8 GHz Flat Panel 23 dBi Antenna (AFP5X-23)		unit	UP
	Flat Panel 2.3-2.7GHz 20dbi (MA-WA25-20B)		unit	UP
	Flat Panel 4.9-5.875 GHz 23dbi (MA-WA58-1X)		unit	UP
	Flat Panel 4.9-6.1GHz 27dbi (MA-WA55-27B)		unit	UP
	Sectoral Antenna 4.9-6.1GHz 15dbi (MA-WE55-15B)		unit	UP
	Solid Parabolic 5GHz 21dbi (RF-58-21)		unit	UP
	Solid Parabolic 5GHz 27dbi (RF-58-27)		unit	UP
	3. KABEL			
	UTP Cat6 AMP USA	AMP	unit	UP
	UTP Cat5E AMP USA	AMP	unit	UP
	UTP Cat5E Belden USA	Belden	unit	UP
	UTP Cat6 Prolink	Prolink	unit	UP
	UTP Cat5E Prolink	Prolink	unit	UP
	STP Cat5E AMP USA	AMP	unit	UP
	STP Cat5E Belden	Belden	unit	UP
	STP Cat5E Ubiquiti ToughCable	Ubiquiti	unit	UP
	FTP Cat 6e Belden/AMP	AMP	unit	UP
	UTP/STP Jaringan	Belden	1 dus	1.850.000
		AMP	1 dus	1.700.000
		UBNT	1 dus	2.000.000
	Rj45	AMP	1 pack	93.750
	4. RJ-45			
	- Merk AMP untuk lan/indoor	AMP	unit	UP
	- Merk AMP untuk Radio/outdoor	AMP	unit	UP
	AKSES POINT			
	UBIQUITI			
	AirGrid M5-HP 5G23	UBIQUITI	unit	950.000
	Lite Beam M5 [LBE-M5-23]	UBIQUITI	unit	775.000
	Power Beam M5-300 [UBNT PBE M5-300]	UBIQUITI	unit	1.550.000
	Power Beam M5-400 [UBNT PBE M5-400]	UBIQUITI	unit	1.725.000
	PowerBeam PBE-M2-400	UBIQUITI	unit	1.200.000
	PowerBeam AC 500 [UBNT PBE-5AC-500]	UBIQUITI	unit	2.500.000
	UBIQUITI Bullet M2HP	UBIQUITI	unit	1.225.000

NO	JENIS/NAMA BARANG	MERK	SATUAN	HARGA
	5. LIGTHNING PROTECTOR			
	Lightning Surge Arrester Altelicon AL-NMNFB-9	Altelicon	unit	UP
	Lightning Surge Arrester Hyperlink/L-Com 5.8Ghz AL6-NMNFBW-9	Hyperlink	unit	UP
	Lightning Surge Protector TPLink TL-ANT24SP	TPLink	unit	UP
	Arrester RJ11 + 4-soket AC Belkin F9H410id2M	Belkin	unit	UP
	Arrester RJ11,RJ45 + 8-soket AC Belkin PF8VNT3-GR	Belkin	unit	UP
	Arrester RJ45 APC PNet1GB	APC	unit	UP
	Arrester RJ45 Engenius ESA-7500	Engenius	unit	UP
	MIKROTIK			
	Cloud Core Routerboard			
	Routerboard CCR1009-7G-1C-1S+, Tilera-TILERA 9 core CPU @ 1.2 Ghz	MIKROTIK	Unit	8.187.500
	Routerboard CCR1009-7G-1C-1S+PC, Tilera-TILERA 9 core CPU @ 1 Ghz	MIKROTIK	Unit	8.187.500
	Routerboard CCR1016-12S-1S+, Tilera-Tile-Gx 16 Core CPU @ 1.2Ghz	MIKROTIK	Unit	10.702.500
	Routerboard CCR1036-12G-4S-EM, Tilera-Tile-Gx 36 Core CPU @ 1.2Ghz	MIKROTIK	Unit	16.492.500
	Routerboard CCR1036-8G-2S+EM, Tilera-Tile-Gx 36 Core CPU @ 1.2Ghz	MIKROTIK	Unit	18.153.750
	Routerboard CCR1072-1G-8S+, Tilera-Tile-Gx 72 Core CPU @ 1Ghz	MIKROTIK	Unit	50.662.500
	6. SWITCH			
	TPLink TL-SF1005D (5-Port 10/100Mbps Desktop Switch)	TPLink	unit	UP
	TPLink TL-SF1008D (8-Port 10/100Mbps Desktop Switch)	TPLink	unit	UP
	TPLink TL-SF1016D (16-Port 10/100Mbps Desktop Switch)	TPLink	unit	UP
	TPLink TL-SF1016 (16-Port 10/100Mbps Metal Case Rackmount Switch)	TPLink	unit	UP
	TPLink TL-SF1024 (24-Port 10/100Mbps Metal Case Rackmount Switch)	TPLink	unit	UP
	TPLink TL-SF1048 (48-Port 10/100Mbps Metal Case Rackmount Switch)	TPLink	unit	UP
	D-Link DES-1005A (5-Port 10/100Mbps Switch)	Dlink	unit	UP
	D-Link DES-1008A (8-Port 10/100Mbps Switch)	Dlink	unit	UP
	D-Link DES-1016D (16-Port 10/100Mbps Desktop Switch)	Dlink	unit	UP
	D-Link DES-1024A (24-Port 10/100Mbps Switch)	Dlink	unit	UP
	D-Link DES-3026/E (24 port 10/100Mbps Switch + 2 Fiber/Gigabit Uplinks)	Dlink	unit	UP
	ProLink PSW510 (5-Port 10/100Mbps Fast Ethernet Switch)	ProLink	unit	UP
	ProLink PSW810 (8-Port 10/100Mbps Fast Ethernet Switch)	ProLink	unit	UP
	Tenda S108 (8-Port 10/100M Fast Ethernet Switch)		unit	UP
	Tenda TEH160SK (16-Port 10/100M Fast Ethernet Switch)		unit	UP
	Tenda TEH2400M (24-Port 10/100M Metal Case Switch)		unit	UP
	Allied Telesis AT-FSW708 (8 Port Unmanaged Metalcase)	Allied Telesis	unit	UP
	Allied Telesis AT-FSW716 (16 Port Unmanaged Rackmount Metalcase)	Allied Telesis	unit	UP
	Allied Telesis AT-FSW724 (24 Port Unmanaged Rackmount Metalcase)	Allied Telesis	unit	UP
	Allied Telesis AT-FSW724 (24 Port Unmanaged Rackmount Metalcase)	Allied Telesis	unit	UP
	Allied Telesis AT-FS709FC (8 Port + 1 Port 100FX Unmanaged Rackmount Metalcase)	Allied Telesis	unit	UP
	TPLink TL-SG1005D (5-Port Gigabit Desktop Switch)	TPLink	unit	UP
	TPLink TL-SG1008D (8-Port Gigabit Desktop Switch)	TPLink	unit	UP
	TPLink TL-SG1008 (8-Port Gigabit Switch Rackmountable)	TPLink	unit	UP
	TPLink TL-SG1016 (16-Port Gigabit Metal Case Rackmount Switch)	TPLink	unit	UP
	TPLink TL-SG1024 (24-Port Gigabit Metal Case Rackmount Switch)	TPLink	unit	UP
	TPLink TL-SG1048 (48-Port Gigabit Metal Case Rackmount Switch)	TPLink	unit	UP

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	Prolink PSW820G (8-Port Gigabit Ethernet Switch)	ProLink	unit	UP
	Prolink PSW161 (16-Port 10/100Mbps Fast Ethernet Switch)	ProLink	unit	UP
	Prolink PSW162G (16-Port Gigabit Metal Case Rackmount Switch)	ProLink	unit	UP
	Prolink PSW242G (24-Port Gigabit Metal Case Rackmount Switch)	ProLink	unit	UP
	3COM 3CGSU08A (8-Port Gigabit Desktop Switch)	3COM	unit	UP
	3COM 3CRBSG2093 (16-Port Gigabit + 4-Port SFP Managed Switch)	3COM	unit	UP
	Cisco SR2016 (16-Port Gigabit Ethernet Switch)	Cisco	unit	UP
	Allied Telesis AT-GSW900/8 (8 Port Gigabit Unmanaged)	Allied Telesis	unit	UP
	Allied Telesis AT-GS900/16 (16 Port Gigabit Unmanaged Rackmount)	Allied Telesis	unit	UP
	Allied Telesis AT-GS900/24 (24 Port Gigabit Unmanaged Rackmount)	Allied Telesis	unit	UP
	Allied Telesis AT-FS750/16 (16 Port WebSmart + 2 Gigabit Copper & SFP Combo ports)	Allied Telesis	unit	UP
	Allied Telesis AT-FS750/24 (24 Port WebSmart + 2 Gigabit Copper & SFP Combo ports)	Allied Telesis	unit	UP
	Allied Telesis AT-FS750/48 (48 Port WebSmart + 2 Gigabit Copper & SFP Combo ports)	Allied Telesis	unit	UP
	Allied Telesis AT-GS950/8 (8 Port Gigabit WebSmart + 2SFP Combo Ports)	Allied Telesis	unit	UP
	Allied Telesis AT-GS950/16 (16 Port Gigabit WebSmart + 2SFP Combo Ports)	Allied Telesis	unit	UP
	Allied Telesis AT-GS950/24 (24 Port Gigabit WebSmart + 2SFP Combo Ports)	Allied Telesis	unit	UP
	Allied Telesis AT-GS950/48 (48 Port Gigabit WebSmart + 4SFP Combo Ports)	Allied Telesis	unit	UP
	Cisco SRW224G4 (24-Port 10/100M + 2-Port Gigabit Managed Switch)	Cisco	unit	UP
	Cisco SF 300-24 / SRW224G4-K9-NA (24-Port 10/100 + 2-Port combo Gigabit SFP + 2-Port RJ45 Gigabit Managed Switch)	Cisco	unit	UP
	Cisco SRW248G4 (48-Port 10/100M + 4-Port Gigabit Managed Switch)	Cisco	unit	UP
	Allied Telesis AT-8000S/16 (16-Port L2 Managed)	Allied Telesis	unit	UP
	Allied Telesis AT-8000S/24 (24-Port L2 Managed)	Allied Telesis	unit	UP
	Switch RB 250 GS		unit	UP
	Switch			
	Routerboard CSS326-24G-2S+RM (CSS326-24G-2S+RM)	MIKROTIK	Unit	50.662.500
	Switch Gigabit 5 port RB260GS (RB260GS)	MIKROTIK	Unit	711.250
	Switch Gigabit 5 port RB260GSP (RB260GSP)	MIKROTIK	Unit	926.250
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	MikroBits Switch			-
	MikroBits WebSmart Manageable Switch 8 Port (Passive PoE) - Pico (MBSWITCH-8POE-M)	MIKROTIK	Unit	3.437.500
	7. WIFI			
	Router Wireless RB951G-2HND		unit	UP
	RouterBoard 2011UAS-2HnD (desktop case + SFP + Wireless)		unit	UP
	- TL WA901ND		unit	UP
	- TL WA701ND		unit	UP
				UP
	8. PERALATAN			UP
	- Tang Krimping AMP Cat 6 Ori	AMP	unit	UP
	- Tang Krimping AMP RJ45 Ori	AMP	unit	UP