

Serial servers and media converters

N.	Name/ Specifications	Quantity
1.	<p style="text-align: center;">Moxa NPort 5650I-8-DTL-T</p> <p>Ethernet Interface: <i>Number of Ports: 1</i> <i>Speed: 10/100 Mbps, auto MDI/MDIX</i> <i>Connector: 8-pin RJ45</i> <i>Magnetic Isolation Protection: 1.5 kV built-in</i></p> <p>Serial Interface: <i>Number of Ports: 8</i> <i>Serial Standards: RS-232/422/485</i> <i>Connector: DB9 male</i> <i>Serial Line Protection: 15 kV ESD protection for all signals</i> <i>2 kV isolation protection (NPort 5650I-8-DTL only)</i> <i>RS-485 Data Direction Control: ADDC® (Automatic Data Direction Control)</i> <i>Pull High/Low Resistor for RS-485: 1 kΩ, 150 kΩ</i> <i>Terminator for RS-485: 120 Ω</i></p> <p>Software: <i>Network Protocols: ICMP, IPv4, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP V1, HTTP, SMTP, STMP, Rtelnet, ARP, RFC2217</i> <i>Configuration Options: Web Console, Telnet Console, Serial Console, Windows Utility</i> <i>Windows Real COM Drivers: Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded</i> <i>Fixed TTY Drivers: SCO Unix, SCO OpenServer, UnixWare 7, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac OS X</i> <i>Linux Real TTY Drivers: Linux 2.4.x, 2.6.x, 3.x, 4.x</i> <i>Android API: Android 3.1.x and later</i></p> <p>Physical Characteristics: <i>Housing: Metal</i> <i>Weight: Port 5650I-8-DTL: 1,850 g (4.08 lb)</i></p> <p>Environmental Limits: <i>Operating Temperature: Wide Temp. Models: -40 to 75°C (-40 to 167°F)</i> <i>Storage Temperature: -40 to 75°C (-40 to 167°F)</i> <i>Ambient Relative Humidity: 5 to 95% (non-condensing)</i></p> <p>Power Requirements: <i>Input Voltage: 12 to 48 VDC</i> <i>Input Current: NPort 5650I-8-DTL: 740 mA @ 12 VDC</i></p> <p>Standards and Certifications: <i>Safety: UL 60950-1</i> <i>EMC: EN 55032/24</i> <i>EMI: CISPR 32, FCC Part 15B Class A</i> <i>EMS: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV</i> <i>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m</i> <i>IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV</i> <i>IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV</i> <i>IEC 61000-4-6 CS: 150 kHz to 80 MHz, 3 V/m; Signal: 3 V/m</i> <i>IEC 61000-4-8</i></p> <p>Reliability <i>Alert Tools: Built-in buzzer and RTC (real-time clock)</i> <i>Automatic Reboot Trigger: Built-in WDT (watchdog timer)</i></p> <p>MTBF (mean time between failures): <i>Time: NPort 5650I-8-DTL: 258,150 hrs</i></p> <p>Warranty Period: 5 years</p>	10
2.	<p style="text-align: center;">Moxa PWR-12150-EU-SA-T</p> <p><i>Screw-type power jack</i> <i>-40 to 75°C wide operating temperature</i> <i>Compact and lightweight</i> <i>Excellent EMI/EMC characteristics</i> <i>1-year warranty</i></p>	10

3.	Moxa WK-35-04	Wall-mounting kit, 2 plates with 6 screws	10
4.	Moxa CBL-PJ21NOPEN-BK-30	Cable Length: 300±20 mm (11.81±0.79 in)	10
5.	Moxa IMC-21GA-T media converter	<p><i>Standards: IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX IEEE 802.3az (Energy Efficient Ethernet)</i></p> <p><i>Interface:</i> <i>RJ45 Ports: 10/100/1000BaseT(X)</i> <i>Fiber Ports: 100/1000Base-SX/LX or 100/1000BaseSFP slot</i> <i>LED Indicators: PWR1, PWR2, G1 (copper port 10M/100M/1000M), G2 (fiber port 100M/1000M)</i> <i>DIP Switches: Fiber speed 100M/1000M, Link Fault Pass-through, Energy Efficient Ethernet</i> <i>Optical Fiber: Single-mode Transmission Distance (IMC-21GA-LX-SC) 1000BaseLX: 0 to 10 km, 1310 nm (9/125 μm, 3.5 PS/(nm*km))</i> <i>Housing: Metal, IP30 protection</i> <i>Dimensions: 30 x 125 x 79 mm (1.19 x 4.92 x 3.11 in)</i> <i>Weight: 170 g (0.37 lb)</i> <i>Installation: DIN-rail mounting, wall mounting (with optional kit)</i> <i>Operating Temperature: Wide Temp. Models: -40 to 75°C (-40 to 167°F)</i> <i>Storage Temperature: -40 to 75°C (-40 to 167°F)</i> <i>Ambient Relative Humidity: 5 to 95% (non-condensing)</i> <i>Input Voltage: 12 to 48 VDC, redundant inputs</i> <i>Input Current: 285 mA @ 48 VDC max.</i> <i>Connection: Removable terminal block</i> <i>Overload Current Protection: 1.5 A</i> <i>Reverse Polarity Protection: Present</i></p> <p><i>Standards and Certifications:</i> <i>Safety: UL 60950-1</i> <i>EMC: EN 55032/24</i> <i>EMI: CISPR 32, FCC Part 15B Class A</i> <i>EMS: EN 61000-4-2 (ESD): Contact: 6 kV; Air: 8 kV EN 61000-4-3 (RS): 80 MHz to 1 GHz: 1 V/m EN 61000-4-4 (EFT): Power: 1 kV; Signal: 1 kV EN 61000-4-5 (Surge): Power: 1 kV; Signal: 1 kV EN 61000-4-6 (CS): 150 kHz to 80 MHz: 3 V/m EN 61000-4-8 (PFMF) EN 61000-4-11</i> <i>Green Product: RoHS, CRoHS, WEEE</i> <i>Shock: IEC 60068-2-27</i> <i>Freefall: IEC 60068-2-32</i> <i>Vibration: IEC 60068-2-6</i> <i>•MTBF (mean time between failures): Time IMC-21GA: 2,762,058 hrs IMC-21GA-LX-SC: 2,573,203 hrs IMC-21GA-SX-SC: 2,573,203 hrs</i> Warranty Period: 5 years</p>	20
6.	Moxa SFP-1GLXLC-T sfp modul	<p><i>Digital Diagnostic Monitor Function</i> <i>-40 to 85°C operating temperature range (T models)</i> <i>IEEE 802.3z compliant</i> <i>Differential LVPECL inputs and outputs</i> <i>TTL signal detect indicator</i> <i>Hot pluggable LC duplex connector</i> <i>Class 1 laser product, complies with EN 60825-1</i></p>	20