Resilience Gateway ACM7000

Smart Out-of-Band Console Server for Edge Locations

opengear
A DIGI COMPANY

The flexible, cost-effective Resilience Gateway provides secure remote access to your critical devices via Smart Out-of-Band management and an embedded, global 4G-LTE cellular modem. It is built for small IT deployments including retail locations, bank branches/ATMs, regional offices, and other remote locations where business continuity is a must.



Features

- **Compact, powerful *Smart* OOB™ console server with optional Failover to Cellular**
- **Maintain network connectivity during failures with IP Passthrough**
- **Available with 4-port embedded switch**
- **Flexibility with 4 built-in USB console ports**
- **Highspeed global cellular modem - LTE-A Pro**

Console Specifications		
Console Ports	ACM7004-2 – 4 x RJ45 RS-232 Cisco straight pinout console ports ACM7004-5 – 4 x RJ45 RS-232 Cisco straight pinout console ports and 4 port embedded Gigabit Switch ACM7008-2 – 8 x RJ45 RS-232 Cisco straight pinout console ports	
Interface		
Ethernet Ports	ACM7004-2 – 2 x 10/100/1000 Ethernet ACM7004-5 – 4 x 10/100/1000 Ethernet Switch and 1 x 10/100/1000 Ethernet/SFP Uplink ACM7008-2 – 2 x 10/100/1000 Ethernet All Ethernet/SFP Fiber port with 1500V AC Isolation and ESD Protection	
Serial Ports	Cisco straight 50 to 230,400 bps	
USB Ports	4 x USB 2.0 Console Ports	
Remote Access	Integrated 4G LTE Cellular Card, Dual Ethernet, aggregation & redundancy, Automatic Network Failover, Easy browser UI, IPv6	
I/O Ports	2 x TTL level Digital I/O ports (DIO) 5V DC max @ 20mA (supports external water /smoke / motion dry contact sensors) 2 x High Voltage Digital Outputs (HVDO) 5-30V DC@ 100mA (drives relays, alarms, etc.)	
Console Management	Built-in web terminal SSH direct to consoles Optional console keystroke logging	Alert on cable disconnects, text pattern match and more Inline power control Multiple concurrent sessions
Power Requirements		
Power Adapter	110-240V AC to 12V DC external power adapter PSE Mark, BIS Mark	
Power Consumption	Less than 11.5W	
Physical Dimensions		
Dimensions and Weight	5 1/8 x 4 3/4 x 1 3/8 in – 1.3 lbs., 13 x 12 x 3.5 cm - 0.6 kg	
Form Factor	Compact	
Memory & CPU		
CPU	800 MHz Armada 370 ARMv7 SoC (Marvell 88F6W11)	
Memory	256 MB DDR3 SDRAM 32 MB Embedded NOR Flash	
Internal Storage	4 GB NAND Flash	
Environmental		
Operating Temperature	-25°C to 60°C, -13°F to 140°F	
Storage Temperature	-40°C to +75°C, -40°F to +167°F	
Humidity	5% to 90%	
Environmental Monitoring	Internal temperature sensor and external serial EMD5000 device supports physical, smoke, water leak, vibration sensors	
MTBF	100,000 Hours (Power Supply)	
Security, Encryption & Authentication		
	SSH FIPS-140-2 compliant Open SSL Module Strong ciphers -AES encryption Cisco-compatible IPsec OpenVPN	AAA – TACACS+, RADIUS, Active Directory/OpenLDAP, Kerberos, with local fallback Two-factor authentication via remote AAA Configurable stateful firewall Actively developed & support and security notifications-frequent firmware updates
Automation & Scalability		
	ZTP, Lighthouse RESTful API, programmable and extensible Auto-Response, SNMP, LLDP, NTP	
Cellular		
Modules	Sierra Wireless EM7565 Cat-12 600Mbps/150Mbps (Download/Upload)	
Cellular Certification	AT&T and Verizon Certified MIC-R and MIC-T Certified Japanese carriers PTCRB, GCF KDDI/docomol/Softbank/Telstra	
Certifications		
Emissions	EN 55022:2010, CISPR 22:2008, FCC Part 15 Subpart B:2015, ICES-003 Issue 5 (2014), AS/NZS CISPR 22:2009+A1:2010, EN 61000-3-2:2006/A2:2009, EN 61000-3-3:2008	
Immunity	EN 55024:2010, CISPR 24:2010, EN 61000-4-2:2009, EN 61000-4-3:2006+A2:2010, EN 61000-4-4:2004+A1:2010, EN 61000-4-5:2006, EN 61000-4-6:2009, EN 61000-4-8:2010, EN 61000-4-11:2004	
Other Agency Approvals	CE, UL 1950, TUV, C-Tick, RoHS compliant, Security features to support NERC CIP standards, FIPS 140-2 validated module Certificate #2473	
Warranty	4 Years hardware and support	

Available Models

Every ACM7000 model shares the following features:

- **Compact form factor**
- **CPU: 800 MHZ 1-Core ARMv7**
- **256MB Memory**
- **4GB Internal Storage**

Model	Serial Ports	Built-in Switch Option	Fiber SFP	SIM Card Slots	Modem Type
ACM7004-2	4	No	No	0	None
ACM7004-2-L	4	No	No	2	4G LTE
ACM7004-2-LMP	4	No	No	0	4G LTEAPAC
ACM7004-2-M	4	No	2	0	V.92
ACM7004-5	4	4 x 1GbE	1	0	None
ACM7004-5-L	4	4 x 1GbE	1	2	4G LTE
ACM7004-5-LMP	4	4 x 1GbE	1	2	4G LTEAPAC
ACM7008-2	8	No	No	0	None
ACM7008-2-L	8	No	No	2	4G LTE
ACM7008-2-LMP	8	No	No	0	4G LTEAPAC
ACM7008-2-M	8	No	2	0	V.92

-L model utilizes Sierra Wireless EM7565 -LMP model utilizes Sierra Wireless MC7430

Package Checklist

Resilience Gateway, External rack mount tab, Black terminal block ,2 x Blade antennas, DB9F-RJ45 adapter, 4 x Rubber feet, 12v Global Power Supply, Antenna Extension Kit

Optional Accessories

	Part Number	Description
Adapters	319014	Adapter - DB9F to RJ45 straight serial - DCE -For X2 Pinout
	319015	Adapter - DB9F to RJ45 crossover serial - DTE -For X2 Pinout
	319016	Adapter - DB9M to RJ45 straight serial - DCE - For X2 Pinout
Environmental	EMD5000-02	Environmental Monitoring Device - X2 Pinout
	EMD5781-10	Door contact sensor - 10' Cable length
	EMD5782	Vibration sensor - 3' Cable length
	EMD5779-Q	Smoke detector/alarm (220V AC, IEC C-13)
	EMD5890-QA	Smoke detector/alarm (110V AC, NEMA 5-15)
	EMD5780	Water leak detector - 3' Cable length
Mounting	590003	Rack Mount Kit - Ears and Screws - ACM7000
	590012	DIN Rail - ACM7000
	590033	Rack Mount Tray - All ACM Series
Power Supply	450037	Power Supply – 12VDC Four Chamber Square Connector - ACM7000
	450039	Power Supply – External AC power adapter, input IEC C13/C14, output 4-pin connector for ACM7000 - IEC 62368 (450032 replacement)
	450041	Power Supply – ACM7000 External DC-DC Power Converter
Cellular	569018	Antenna - GPS Active - 6' Cable length - For all 4G LTE Cellular units
	569028	Antenna - 5" Blade 4G LTE with swivel base (-LMx models)
	449041	Antenna Extender - Magnetic Base with 10' Cable
	590051	Antenna Extension Kit
	569041	Antenna - Blade LTE-A with swivel base (-L model)

Support

Part Number	Description
OG-PRTS-1YR	1-Year Premium Support - Access to Premium Resources 24x7 and Advanced Replacements
OG-PRTS-2YR	2-Year Premium Support - Access to Premium Resources 24x7 and Advanced Replacements
OG-PRTS-3YR	3-Year Premium Support - Access to Premium Resources 24x7 and Advanced Replacements
OG-PRTS-5YR	5-Year Premium Support - Access to Premium Resources 24x7 and Advanced Replacements
OG-PRTS-7YR	7-Year Premium Support - Access to Premium Resources 24x7 and Advanced Replacements
OG-FNTS-ACM7000-1YR	1-Year Foundation Support for ACM7000 - 8x5 Regional Support with Advanced Replacement
OG-FNTS-ACM7000-2YR	2-Year Foundation Support for ACM7000 - 8x5 Regional Support with Advanced Replacement
OG-FNTS-ACM7000-3YR	3-Year Foundation Support for ACM7000 - 8x5 Regional Support with Advanced Replacement
OG-FNTS-ACM7000-5YR	5-Year Foundation Support for ACM7000 - 8x5 Regional Support with Advanced Replacement
OG-FNTS-ACM7000-7YR	7-Year Foundation Support for ACM7000 - 8x5 Regional Support with Advanced Replacement