

Industrial Street Hardened Rugged Router 6401 Rugged ADSL Router



Case Communications 6401 Rugged ADSL Router Overview

The Case Communications 6401RR (Rugged Router) is a cost effective 'Street Hardened' Router designed for use in hostile environments, where it can operate in temperatures from -20°C to $+70^{\circ}\text{C}$, without the use of fans or moving parts, ensuring the highest levels of reliability.



6401 Front View



6401- Rear View
(DC PSU)

FACT SHEET

Hardware Specifications

CPU	BCM63281T
RAM	128Mbyte
NOR FLASH	8Mbyte

Power

AC PSU	External in line 100-240vac
Power	Max 2 Watts, Power save mode 0.6W
AC / DC PSU	(Internal) 12 -72 vdc, usual 48vdc

Input / Output Ports

WAN	ADSL 2 + Annex M (24Mbps)
Ethernet	4 x 10/100Mbps Rj 45

ADSL Features

Full-Rate ANSI T1.413 Issue 2	
ITU-T G.992.1 (G.dmt)	ITU-T G.992.2 (G.lite)
ITU-T G.994.1 (G.hs)	ITU-T G.992.3 (G.dmt.bis)
ITU-T G.992.5	Supports Annex A / L / M

Environment

Operating Temp	-20 to +70 C
Storage Temp	-40 to +85 C
Humidity	10 to 90% RH

MTBF

Main unit	125,000 Hrs
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Housing

Die cast aluminium 180(W) mm x 105 (D) mm x 31(H) mm

Watchdog Timer – Hardware and Software

System Log Security Log

Management

Web based / CLI
SNMP
OAM (802.3ah, 802.1ag / T1731)
Advanced Power Management – allows reduced power
Automatic testing of Ethernet ports and ISP Services
TCP Dump – Data monitoring
TR 069 – Automatic configuration
Software updates over the network

Software Specifications

WAN Services

- EoA (VC Mux / LLC SNAP bridging)
- PPPoA (VC Mux / LLC Encapsulation)
- IPoA (VC Mux / LLC Snap-Routing)
- PPPoE (Bridging)

Routing

- IPv4 & IPv6
- Static Routes
- RIP I and II
- Policy based routing

Tunnelling and security

- IP Sec VPN encrypted tunnels (3DES, 256 AES)
- Initiate and responder mode
- L2TP v3
- Authentication X509 or pre shared

Access Security

- Firewall
- NAT & Full Cone NAT
- Virtual Server (Protocol and external port no.)
- Port Triggering
- Forwarding to DMX host
- IP and MAC Filtering mechanisms
- MAC Filtering (bridging mode)
- Access restriction by
 - User name
 - MAC Address
 - Date / Time
 - URL Filter

Quality of service and performance

- DSCP
- Queue set up ATM 16 modes, PTM 8 modes
- 4 Queues for Ethernet ports
- 32 classes of traffic
- IGMP v3 Support
- Multicast Support Up to 25 Members

NB. These specifications may change without notice

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TEST	SPECIFICATION	APPROVAL	SPECIFICATION
ESD	EN-61000-4-2	Electromagnetic Compatibility (EMC)	2004/108/EC
RF field AM modulated	EN-61000-4-3	Radio equipment and Telecommunications terminal equipment (R&TTE)	1999/5/EC
Fast Transient	EN-61000-4-4		
Surge	EN 61000-4-5		
RF Conducted	EN 61000-4-6	Electromagnetic compatibility – Immunity IT equipment	EN 55024, EN 55024 A1, EN 55024 A2,
Pulse Magnetic Field	EN 61000-4-9	Radio disturbance characteristics. Limits and methods of measurement	EN 55022, EN 55022 A1,
Voltage dips & interruption	EN 61000-4-29		
Radiated emission	EN 55022 – Class A FCC part 15-Class A	Immunity industrial environments	EN 61000-6-2,
Conducted emission	EN 55022 – Class B FCC part 15 – Class B EN 55022-Class B	Emission industrial environments	EN 61000-6-4,
Dielectric Strength	EN 69050	Emission residential, commercial and light-industrial environments	EN 61000-6-3
Vibration	IEC 6068-2-6		
Shock	IEC 60068-2-27	Railway signalling and telecommunications apparatus	EN 50121-4,
Operating Temperature	-20C to +70C	IT equipment	EN 60950-1
Storage Temperature	-40C to +85C		
Humidity	5% - 95% Relative		
Enclosure	UL-95		

Ordering Information

RR 6401 6401ADSL 2+ Annex M Industrial / Rugged Router (-20C to +70C)
6401 AC PSU 6401-100v- 240vac Power Supply (-20C to +70C)

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