Industrial Routing
6540 – ADSL / V.DSL -Fibre - 4G

case communications

The 6540 is an industrial specification router operating from -40C to +75C without fans and capable of supporting, Fibre, V.DSL, ADSL with a Cellular back up option , and high levels of security.

Fact sheet

Hardware

WAN Ports
- 1 x GBIC / SFP /100 / 1000
- 1 x V.DSL / ADSL
- Cellular (Option)

VDSL 2E
- ITU-T-G.993.1& G997.1
- ITU-T G993.2 (5 Band 17a)
- ITU-T G.993.5 (VDSL2 vectoring)

ADSL2+ (Full rate ANSI T1.413)
- ITU G.992 (G.dmt)
- ITU G.992.2 (G.Lite)
- ITU G.994 (G.hs)
- ITU G992.3 (G.dmt.bis)
- ITU G.992.5
- Support for Annex A / L / M

Ethernet Ports
- 2 x 100 / 1000 (Fibre – GBIC)
- 4 x 10/100/1000 PoE / PoE+ Ports

Cellular Option
- LTE / 4G / 3G Option
- Quad band GSM 850,900,1800, 1900Mhz
- HSDPA / EDGE / GPRS Operation
- Dying Gasp Alarm

Housing
- DIN Rail, Rack Mount
- IP 30
- 185(h) x 60(w) x 153(d) (Vertical)
- 890 Gms

Operating Temperature
- -40C ~ +75C

Power
- 24 ~ 75vdc
- If using POE: 48vdc

Software

WAN Services
- EoA (VC Mux / LLC Snap)
- PPPoA (VC Mux / LLC Encapsulation)
- IPoA (VC Mux / LLC Snap routing)
- PPPoE (Bridging)

Routing
- Static
- RiP v1 /v2
- OSPF
- BGP
- IPv4 / IPv6
- Policy based routing

Tunnelling
- IP Sec (3 DES, AES 256)
- Authentication X.509 or Pre-shared key
- Open VPN
- GRE Tunnelling

Access Security
- Stateful inspection firewall
- NAT & Full Cone NAT
- Port Triggering
- Forward to DMX Host
- IP & MAC Filtering
- MAC Filtering (Bridging Mode)
- IEEE 802.1x Port Based Security
- Protected ports
- Access Restriction
  - User name
  - Mac address
  - Date / Time
  - URL Filter

Bridging
- Multiple spanning tree – up to 16
- Multiple path bridging

Port Aggregation
- Aggregate up to 4 ports

Software continued

Quality of Service
- DSCP
- Queue Set up to ATM x 16 modes
- PTM x 8 Modes
- 4 Queues for Ethernet Traffic
- 32 Classes of Traffic
- IGMP Support
- Rate Control Ingress / Egress

VLANS
- Port based VLANS
- Tagged only VLANS
- Mixed Mode Tagged & Untagged
- Automatically attach a tag
- Double Tagging
- Protocol Assignment of VLAN
- Assignment by IP or MAC Address

IGMP Snooping v2 / v3

DHCP Server

Multicast – PIM-SM

Management
- Local and Remote Access
- CLI – SSH
- SNMP v1 / v2 / v3
- Port Mirroring
- Event Scheduler
- Trace Route
- Ping Facility
- Bert Tester
- Cellular data cut off
- TR069
- Comprehensive Statistics

Standards
Vibration – MIL Std 810G 514.6
Temperature – MIL Spec 810G – 501.6
EN55016-2-3:2010 +A1:2010
EN 55016-2-1:2009+A1:2011
EN61000-4-6: 2006

Ordering Information	6540 Router 6540	6540+ PoE 6540-P	6540 + Cellular BU 6540-C	6540+PoE+ Cellular BU 6540-CP