V5916T

Broadband Access FTTx/G.Fast

Overview

Rather than trench cable, dig up yards and rewire households for fiber, DASAN's G.fast solution delivers fiber-like speeds over existing copper infrastructure, addressing last mile issues and reducing CAPEX by deferring the cost of extending fiber to every building and home; G.FAST extends high speed broadband to locations where fiber deployment is difficult. G.FAST is rated for up to about 500m (1600ft) DASAN's V5916T 1U Ethernet Switch provides up to 2 x 10GbE uplink connections or 1.25Gbps (upstream) / 2.5Gbps (downstream) data rate via GPON uplink connection, and supports 16 x 1Gbps G.FAST ports with VDSL2 FALLBACK(30A) and 16 x POTS ports with 80Gbps Switch Capacity.

- Deliver fiber-like speeds over the last mile of existing copper infrastructure
- Reduce CAPEX by deferring the cost of extending fiber to every building and home
- Extend high speed broadband to locations where fiber deployment is difficult

Features

- 80Gbps Switch Capacity
- 16 x 1Gbps G.FAST ports
- 16 x POTS ports
- Up to 2 x 10GbE uplink connections
- No speed degradation by packet size
- Up to 1.25Gbps (upstream) / 2.5Gbps (downstream) data rate via GPON uplink connection
- L2/L3/L4 Traffic classification/Priority management
- Diverse QoS mechanisms (SP/WRR)
- Multicast Support for IP-TV : IGMP v2/v3
- IPv6 Hardware Ready Platform
- SNMPv2/v3 with RMON, Alarms
- DoS resilient platform: Broadcast/Multicast storm control
- Authentication by RADIUS, 802.1x

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Specification

Flash Memory	64MB
SDRAM	256MB
Service Interface	G.FAST(RJ-21) 16port POTS(RJ-21) 16port
Uplink Interface	Fixed Type -2 port 100/1000Base-X (SFP) -2 port 10/100/1000Base-T (RJ-45) Module Type -1 port 10GBase-T (RJ-45) -1 port 10GBase-R (SFP+) -1 port 10G EPON (SFP+) -1 port 1G EPON (SFP) -1 port 1000Base-X(SFP) -1 port 10/100/1000Base-T(RJ-45) -2 port 1000Base-X (SFP) -1 port 100/1000Base-X(SFP)
Console port	RS232(RJ-45), 1Port
MGMT port	10/100Base-TX(RJ-45) 1Port
Switching Capacity	80Gbps
Thoughput	59.5Mpps
Input Power	90~240VAC, 47~63Hz
Power Consumstion	72W
Operating Temperature	-20~60℃
Storage Temperature	-40~90℃
Humidity	20~90% (non-condensing)
Dimension [WxHxD], mm]	440mm x 44mm x 290mm

Capabilities

Layer 2	• Standard Ethernet bridging • Port/Subnet/Protocol based VLAN • STP/RSTP/MSTP/PVSTP/PVRSTP • 802.3ad Link aggregation • Port mirroring • Rate-limiting with Egress shaping • MDI/MDIX automatically sense • Flow Control acc. to 802.3x • MAC Address Translation with n:1
Layer 3	• IPv4 and IPv6 (Static) • DHCP Client, Server
IP Multicast	• IGMPv1/v2/v3 • IGMP snooping V3 • IGMP Proxy V3 • Multicast VLAN Registration (MVR)
Management	• Serial/Telnet (CLI) • SNMPv1/v2/v3 • RMON • DHCP Relay Option82
QoS	• Conditional rate limiting • ToS • CoS(IEEE 802.1p) • SPQ,WRR Schedulling for QoS • 8 queues per port
G.FAST	• Standard : G.fast • G.9700 (G.fast PSD(Power Spectral Density)) • G.9701 (G.fast Transceiver) • 106a profile • On-line Reconfiguraiton(OLR) for SRA, TIGA, RPA and FRA • Loop diagnostic function • VDSL2 compatibility

Sample Configuration