



ATR'IE 4800 IP-DSLAM

TECHNICAL SPECIFICATION



ATR'IE 4800 Series – 8Port chassis



ATR'IE 4800 Series – 16Port chassis

Features

Layer 2 Switch

- ▶ 16,384 MAC address with wire-speed automatic learning
- ▶ Class-of-Service, link aggregation, and port mirroring across stack link
- ▶ Stacking for 4 Gbps operation
- ▶ VLAN awareness on a per port, MAC address, IP source Address, IP Destination Address, PVC, DSCP, TOS and QoS 802.1p basis
- ▶ 4,000 VLAN Tagging (IEEE Std 802.1q)
- ▶ Independent and shared VLAN learning
- ▶ VLAN Q-in-Q support (VLAN stacking)
- ▶ Spanning Tree Protocol support (IEEE Std 802.1d) and Layer 2 Tunneling protocol.
- ▶ Rapid Spanning Tree Protocol support (IEEE Std 802.1w)
- ▶ GARP, GMRP, GVRP and IGMP snooping V1, V2 support
- ▶ IGMP Proxy for IP Multicasting
- ▶ 1,000 Multicast groups
- ▶ Aggregation of Multiple Link Segments (IEEE Std 802.3ad)
- ▶ Flow Control Protocol Support (IEEE Std 802.3x)
- ▶ Media Access Control Bridges (IEEE Std 802.1D)
- ▶ Virtual Bridge Local Area Networks (IEEE Std 802.1Q)
- ▶ Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications (IEEE Std 802.3)
- ▶ MAC Address Translation

Layer 3 Switch

- ▶ DHCP Relay Agent (Option 82) support
- ▶ PPP over Ethernet support
- ▶ Network Address Translation

Quality of Service

- ▶ Programmable multi-layer classifier based on Layers 2-4 four QoS classes per port
- ▶ Multiple queues per port, PVC, IP source Address, IP Destination Address
- ▶ Strict priority scheduling with guaranteed bandwidth allocation
- ▶ Traffic class assignment based on port, 802.1p tag or DiffServe Code Point (DSCP) field
- ▶ DSCP (IPv4 and IPv6) and IEEE Std 802.1p support
- ▶ Provider Bridging support with multiple VLAN tags (Q-in-Q)
- ▶ Broadcast and multicast storm control
- ▶ Traffic shaping and policing per port
- ▶ Flexible link aggregation based on Layer 2-4 information (IEEE Std 802.3ad)
- ▶ Scheduling: WFQ and priority scheduling at each hierarchy level
- ▶ Per Flow Queuing (PFQ) with 4-level hierarchical scheduling
- ▶ Configurable WRED profiles

Security

- ▶ Port-based access control support (IEEE Std 802.1X) and Radius Server authentication
- ▶ MAC Address limitation per port
- ▶ Access Control List by Ethernet port, MAC, IP source Address, IP Destination Address and L4
- ▶ Extensive snooping: BPDU, GARP, ARP, IPMC, IGMP, TCP/IDP, and BOOTP/DHCP
- ▶ Extensive statistics for SNMP MIBs, RMON, and SMON for both Layer-2 and Layer-3
- ▶ Firewall DoS / DDoS Protection
- ▶ IP / MAC address anti-spoofing
- ▶ Packet Filtering by IP source / destination address and port

Specifications

Control Card and Line Card Service	Chassis Information	
<p>Control Card</p> <ul style="list-style-type: none"> ▶ SWITCH Card-4U <ul style="list-style-type: none"> - Central Processing Unit and Up-link Card - 4 Ports Dual PHY SFP and 10/100/1000 Base-TX - 1 Port 10/100 Base-TX Ethernet Management - 1 Port Console Serial Port Management - Supports VPN application,RIP,RIP(v2),OSFP - <p>Line Card Service</p> <ul style="list-style-type: none"> ▶ IPS-24B ADSL2+ Line Card, 24 ports and IPS-48B ADSL2+ Line Card, 48 ports <ul style="list-style-type: none"> - ADSL/ ADSL2/ ADSL2+ Annex.A, Annex.M - ITU-T G.992.1 / G.992.2 / G.992.3/ G.992.5/ G.994.1 and ANSI T1.416 issue 2 - Up to 720 ADSL subscribers Service for IPS-48B ADSL2+ Line Card, 48 ports 	<ul style="list-style-type: none"> ▶ Rack Unit – 10 RU system ▶ System Control and Uplink Unit – 2 slots ▶ Multi Service Line Card – 14 slots ▶ Built-In Cooling System Module ▶ Full Frontal Access ▶ POTS Splitter Module (Optional) ▶ Dimension: 300mm(D)x440mm(W)x450mm(H) ▶ Weight: 15kg 	
	System Performance	
	▶ Backplane BUS Capacity	1 Gbps
	▶ Backplane Total BUS Capacity	30 Gbps
	▶ Switch Fabric Capacity	40 Gbps
	▶ Up-Link Capacity	4 Gbps
	▶ Full ADSL2+ Booking Ratio 1:2	4 Gbps
	▶ Full VDSL2 Booking Ratio 1:9	3.8 Gbps
▶ Full G.SHDSL Non Blocking 1:1	779 Mbps	
Standards and Compliance	System Protection and Operation Maintenance	
<ul style="list-style-type: none"> ▶ IEEE <ol style="list-style-type: none"> 1. IEEE 802.3 CSMA/CD (Ethernet) 2. IEEE 802.3ad Link Aggregation 3. IEEE 802.3x Flow Control 4. IEEE 802.3z Gigabit Ethernet 5. IEEE 802.1q VLAN Tagging 6. IEEE 802.1p Traffic Prioritization 7. IEEE 802.1d Spanning Tree Protocol 8. IEEE 802.1w Rapid Spanning Tree Protocol 9. IEEE 802.1X Port Base Access Control 	<ul style="list-style-type: none"> ▶ Redundant Switching Control Unit ▶ Ethernet Automatic Protection Switching sub 50ms ▶ All card Hot Pluggable ▶ Auto Provisioning ▶ Remote and Local FTP/TFTP Firmware upgrade ▶ Configuration Backup ▶ Alarm indicator and Diagnostics function 	
	Protocol Transparent	
	<ul style="list-style-type: none"> ▶ SIP (RFC3261) ▶ PPPoE (RFC2516) 	

<ul style="list-style-type: none"> ▶ ITU-T <ol style="list-style-type: none"> 1. ITU-T H.248 Media Gate Control Protocol 2. ITU-T G.991.2 G.SHDSL Standard 3. ITU-T G.992.1 ADSL Standard 4. ITU-T G.992.2 ADSL.lit Standard 5. ITU-T G.992.3 ADSL2 Standard 6. ITU-T G.992.5 ADSL2+ Standard 7. ITU-T G.993.1 VDSL Standard 8. ITU-T G.993.2 VDSL2 Standard 9. ITU-T G.994.1 ADSL Handshake 10. ITU-T VoIP Line Card-24Port ▶ ANSI <ol style="list-style-type: none"> 1. ANSI T1.413 Interface between network and customer installation ADSL 2. ANSI T1.413 Interface between network and customer installation VDSL ▶ IETF RFC <ol style="list-style-type: none"> 1. RFC 1155 MIB 2. RFC 1157 SNMP 3. RFC 1213 MIB-II 4. RFC 2011 SNMPv2 5. RFC 2819 Remote Network Monitoring MIB 6. RFC 3619 Ethernet Automatic Protection Switching 7. RFC 1112 Multicasting / IGMP snooping 8. RFC 3022 Traditional NAT 	Operating Requirements
	<ul style="list-style-type: none"> ▶ Operating Temperature: -10°~ 65 °C ▶ Storage Temperature: -30c°~70 °C ▶ Operating Humidity: 5% to 90% RH non-condensing
	Management
	<ul style="list-style-type: none"> ▶ Local and Remote Management ▶ Command Line Interface ▶ SNMP GUI-Base Management Software
	Power Source
	<ul style="list-style-type: none"> ▶ Power Input: -48 VDC (-38 DC to -57 VDC) ▶ Power Consumption: 650 watts
	UP-Link Interface
<ul style="list-style-type: none"> ▶ 10/100/1000 Base-TX ▶ 1000 Base-SX ▶ 1000 Base-LX ▶ 1000 Base-LH ▶ 1000 Base-ZX 	
System Clock	
<ul style="list-style-type: none"> ▶ Internal oscillator for free running clock 	



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