

Technical Specifications

Aviat CTR 8540

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System Parameters

General		
TI I (0 ' D		per link
Throughput/Capacity Range	Airlink Capacity	11 - 436 Mbit/s
Manager	Native Carrier Ethernet/IP	11 - 554 Mbit/s
Memory		2 Gb SD card serialized, includes licenses and configuration as ordered
Networking		
Switching Capacity		5 Gbit/s
Packet Buffer		23 MB - Configurable per port & per queue
Radio Networking		
Frequency Band options	ETSI ANSI	5, L6/U6, 7/8, 10, 11, 13, 15, 18, 23, 26, 28, 32, 38 and 42 GHz 5.8, L6/U6, 7/8, 11, 13, 15, 18, 23 and 38 GHz
Adaptive Coding and Modulation	Modulation Options	QPSK, 16, 32, 64, 128, 256, 512 and 1024 QAM
		Modulation range configurable
Nodal Capacity		Up to 8 nodal IF links using RACx2, or 4 using RACx1
—	ODUs supported	Eclipse ODU 600, ODU600sp, ODU 300hp
—	All-outdoor supported	Aviat WTM 3100, WTM 3200, WTM 3300, 3rd party
Redundancy		1+1 HSB, SD or FD*, scalable to 4x(1+1)
Co-Channel Operation with XPIC	RACx2	ETSI: >15dB XPOL improvement
	RACx2	ANSI: >20dB XPOL improvement
Interfaces		
Ethernet switch ports	RJ-45	8x 10/100/1000Base-T
	SFP	4x 1000Base-X (unpopulated)
Tributary connectors	HDR-50 (x2)	16xE1 or 16xDS1
Management connection	RJ-45	V.24 Serial Maintenance port
Direct Power Feed	2-pin D-sub M/F	-48 Vdc
Protection Port (for Ethernet switch protection)*	Quad SFP port	High speed interface to standby chassis for protection
Diversity Port (for RF Diversity protection)*	Quad SFP port	High speed interface to standby chassis for diversity
Plug-Ins		
Universal Plug-In slots		Slots 1-4 for optional plug-ins
Plug-In Modules (Optional)	RACx1	Single IF radio Interface
—	RACx2	Dual IF radio interface
	PoEx2	Dual PoE++ 10/100/1000Base-X
	PWR	Power supply for redundancy
Fault and Configuration Man	nagement	
Local/remote Configuration Tool		Command Line Interface (CLI) or Web UI
Network Management		Aviat Networks ProVision™ EMS
Protocol		SNMP v1 / v2c / v3
Remote Monitoring		RMON V1, V2
Port Mirroring		multiple ports

* Future Release



Standards Complia	nce	
EMC	EN 301 489-1, EN 301 489-4, EN 300 386, F	CC CFR 47 Part 15, ICES-003
Operation		EN 300 019, Class 3.1E
Storage		EN 300 019, Class 1.2
Transportation		EN 300 019, Class 2.3
Safety	IEC/EN 60950-1, UL 60950-1,IEC/EN 62368-1, UL 62368-1, CA	N/CSA C22.2 No. 62368-1-14
Electrical and Mech	anical	
Base chassis input volta	age	-48 Vdc nominal
Base chassis voltage ra	nge	-40.5 Vdc to -57 Vdc
Power Consumption	Chassis - Switch, Management and TDM	1 45 W
	Fan (when operational)	up to 12 W
	Complete System Range	45 - 200 W
Chassis dimension	44 mm (1RU) x 445 mm >	x 240 mm/ 1RU x 19 in x 9.0 in
Chassis weight		4.5 kg / 9.9 lb
Environmental		
Operating Temperature		-5° to +55° C / 23° to +131° F
Humidity		5% to 95%, non-condensing
Altitude		4,500 m / 15,000 ft.



Networking Protocols and Standards

MAC address register		8000 entries
Jumbo Frames		up to 10k bytes
QoS (Quality of Service)		
Quality of Service and Policies	Packet Priority	IEEE 802.10
	Port Based Prioritization	Ye
	IEEE 802.1p QoS/CoS Bits	Ye
	DSCP	Ye
	MPLS EXP bits	Yes
	Remarking	MPLS Exp* and DSCP to 802.1
	Transmission Queues	
	Queue Handling	Strict, WRR, DFQ, WRED hybrid (Strict+WRR
VLAN Services		
VLAN Services	VLAN Tagging	IEEE 802.10
	Q-In-Q (Provider bridging)	IEEE 802.1a
	VLAN Translation	Ye
Congestion Management		
5 5	Flow Control	IEEE 802.3x
	Ingress Policing	TrTCM (per port and per flow
		CIR, EIR, CBS, EB
	Broadcast/Multicast Storm Protection	Ye
Link Aggregation		
Layer 1 Link Aggregation (L1LA)	No. of Radio Bearers	1 x 8 or 2 x
(RACx1 and RACx2)	Reconvergence Time	<10 m
		Hitless ACM Support
	LAG Throughput Efficiency	90-95%
LAG (Layer 2)		IEEE 802.1AX stati
	Lipper porto and ak	Layer 2 and Layer 3 hashing
	User ports and cr	nannels (LACP on user ports only
Ethernet Protection		
Protocols	ERP	ITU-T G.8032v2
	MSTP	IEEE 802.1
	RSTP	IEEE 802.1
OAM		
Ethernet Link Layer OAM		IEEE 802.3a
Ethernet Service OAM	IEEE 802.1ag/ITU-T Y.1731 CFM	ETH-CC, ETH-LE ETH-LT, ETH-RD ETH-AI
	ITU-T Y.1731 PM*	ETH-LM ETH-DM and ETH-DVM

* Future Release



Management and	Traffic Analysis
Management	

Management	Web-based GUI	Supports IPv4
	Command Line Interface	CLI
	Telnet Client	Supports IPv4
	Protocol	SNMP v1/v2c
	RMON v1/v2	RFC 2819/RFC 2021
Network Management		Aviat Provision EMS

Timing Protocol	
Internal Reference	Built-in Stratum-3
Synchronous Ethernet	ITU-T G.8262
ESMC/SSM	ITU-T G.8264
Precision Time Protocol	IEEE 1588v2 Precision Time Protocol (PTP)
	Agnostic Mode (High Priority QoS VLAN) Transparent Clock - Better than +/-1.5us*

Circuit Emulation/Pseudowire Services Point to point connection of E1 or DS1 circuits over IP

CES SoETH (MEF 8)



Base Chassis Specifications

CTR 8500 Chas	ssis		
Universal Plug-In M	Iodule Slots		4
Logo LED Indicator			1x Tri-state (Status)
Unit LED Indicators	3		2x Tri-state (Online "ON", Status "OK")
Switch Ports			
Interfaces			12x user ports
Ethernet Standards	Compliance	Ethernet	IEEE 802.3
	·	Networking Protocols	IPv4 and IPv6
User Ports		RJ-45	8x 10/100/1000Base-T, auto negotiate
		SFP	4x1000Base-X
	Optical SFP Options	1550 nm single mode	1000Base-ZX
		1310 nm single mode	1000Base-LX
		850 nm multimode	1000Base-SX
	Electrical SFP Options	RJ-45	1000Base-T
LED Indicators		RJ-45, SFP	"Activity", "Link"
Universal Plug-i	n Slot		
Slot Designations			Slot 1 thru 4
Module Plug-Ins Su	upported		RACx2, RACx1
			PoEx2
			PWR (must be used in sSlot 1)
			PWR+Alarm I/O*
Tributary Conne	ection		
Connector Type			2x 50-pin HDR
Interface, configura	ble	Electrical	1 to 16x 1.544 Mbit/s (DS1)
		Electrical	1 to 16x 2.048 Mbit/s (E1)
Electrical interface	parameters - E1	Standards Compliance	Compliant to ITU-T Rec. G.703, G.823
	•	Line code	HDB3
		Impedance	75 Ω unbalanced or 120 Ω balanced,
Electrical interface	parameters - DS1	Standards Compliance	Compliant to ITU-T Rec. G.703, G.824
		Line code	AMI or B8ZS, configurable
		Impedance	100Ω balanced
Circuit Emulation /F	Pseudowire Services		Supported on all T1/E1 interfaces
			CES SoETH (MEF 8)
NMS Interface			
Serial Maintenance	Interface	Standard	Complies to TIA/EIA-232C (v.24)
		Speed	115.2 kbps
		Connector	8-pin RJ-45
Power Connecte	or		
Connector			2-pin D-sub M/F 2W2C
Electrical		DC input voltage, nominal	-48 Vdc
		DC Supply input range	-40.5 to -57 Vdc
		DC Fuse type and rating	25A Slo-Blo
Protection Port	(Ethernet switch protection		
Interface			Quad SFP port
LED Indicator			1x Tri-state LED (Status)
	RF Diversity protection)*		
Interface			Quad SFP port
LED Indicator			1x Tri-state LED (Status)
* Future Release			



Radio Access Card (RAC) Modules

General		
IF connectors		SMA
LED Indicators	RAC modul	e 2x Tri-state (Online "ON", Status "OK")
Dimensions (including front panel and rear co	onnector)	18 mm x 104 mm x 230 mm / 0.70 in x 4.0 in x 9.0 in
Weight		0.27 kg / 0.6 lb

RACx2 Dual IF Radio Interface		
IF Connectors		2 x SMA
RFUs supported		ODU600, ODU600sp, IRU600*, ODU300hp
Capacities supported		Ethernet to 554 Mbit/s ^[1] per port
Modulations supported	Fixed Modulation	QPSK, 16, 32, 64, 128, 256, 512, 1024QAM
Adaptive Coding and Modulation	Modulation Options	QPSK, 16, 32, 64, 128, 256, 512, 1024QAM
Configurations Supported		1+0, 2+0, 1+1, SD, CCDP/XPIC
Power consumption		up to 28 W
ODU LED Indicators	ODU1, ODU2	2x Tri-state (IF "ON", IF Status "OK")
RACx1 Single IF Radio Interface		

To tox Tolligie II Tradio Internatio	0	
IF Connectors		1 x SMA
RFUs supported		ODU600, ODU600sp, IRU600*, ODU300hp
Capacities supported		Ethernet to 554 Mbit/s ^[1] per port
Modulations supported	Fixed Modulation	QPSK, 16, 32, 64, 128, 256, 512, 1024QAM
Adaptive Coding and Modulation	Modulation Options	QPSK, 16, 32, 64, 128, 256, 512, 1024QAM
Configurations Supported		1+0; 2+0 or 1+1 with partner RACx1 or RACx2
Power consumption		up to 20 W
ODU LED Indicators	ODU1	2x Tri-state (IF "ON", IF Status "OK")

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[1] Maximum Ethernet Throughput figures are L1 based upon 64 byte frames, and will vary depending upon actual mix of traffic frame sizes. * Future Release



Non-RAC Modules

Operation chassis power of chassis power of connectors Connectors 2-pin D-sub N Electrical DC input voltage, nominal DC Supply input range DC Fuse type and rating 25/ Module LED Indicators 2x Tri-State (Online "ON", Stat Dimensions (including front panel and rear connector) 18 mm x 104 mm x 230 mm / 0.70 in x 4.0 in Weight 0.21 kg Power Consumption 0.21 kg PoEx2 Module - Dual Power over Ethernet Interface (PoE++) Module LED Indicators 2x Tri-State (Online "ON", Stat PoE Output power up to 65W per User Ports (Port 1, Port 2) RJ-45 User Port LED Indicators RJ-45 Vetworking Protocols User Port LED Indicators Weight 0.23 kg Power Consumption 18 mm x 104 mm x User Port LED Indicators RJ-45 User Port LED Indicators RJ-45 Vetworking Protocols 0.23 kg Veight 0.23 kg Power Consumption 18 mm x 104 mm x FAN Plug-In Module (required module) Fans LED Indicator 1x Tri-state ("Fan Dimensions (including fr	PWR (Power) Module [1]		
Connectors 2-pin D-sub f Electrical DC input voltage, nominal DC Supply input range -40.5 to DC Fuse type and rating 25/ Module LED Indicators 2x Tri-State (Online "ON", Stat Dimensions (including front panel and rear connector) 18 mm x 104 mm x 230 mm / 0.70 in x 4.0 in Weight 0.21 kg Power Consumption 2x Tri-State (Online "ON", Stat POE x2 Module - Dual Power over Ethernet Interface (PoE++) Module LED Indicators Module LED Indicators 2x Tri-State (Online "ON", Stat PoE Output power up to 65W per User Ports (Port 1, Port 2) RJ-45 Ethernet IEf Networking Protocols User Port LED Indicators Very Port LED Indicators RJ-45 Weight 0.23 kg Power Consumption 18 mm x 104 mm x Very Port LED Indicators RJ-45 User Port LED Indicators RJ-45 Very Power Consumption 0.23 kg Power Consumption 0.23 kg FAN Plug-In Module (required module) Fans LED Indicator 1x Tri-state ("Fan Power consumption	Operation		Provides 1+1 hitless protection for base
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Fans 1x Tri-state ("Fan LED Indicator 1x Tri-state ("Fan Power consumption Typical Dimensions (including front panel and rear connector) 44 mm x 59 mm x 230 mm / 1.7 in x 2.3 in	Power Consumption		17 W
LED Indicator 1x Tri-state ("Fan Power consumption Typical Dimensions (including front panel and rear connector) 44 mm x 59 mm x 230 mm / 1.7 in x 2.3 in	FAN Plug-In Module (required module)		
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Dimensions (including front panel and rear connector) 44 mm x 59 mm x 230 mm / 1.7 in x 2.3 in	LED Indicator		1x Tri-state ("Fan" Status)
		<i>,</i> ,	12 W
Weight 0.28 kg		nector) 44 mm x	
-	Weight		0.28 kg / 0.62 lb

[1] Install in Slot 1 only

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