

AD-SP-074

Order Codes: [product_code]/(hs)(temp)(coat)/(PB)/(C#)

[product_code]	Product specific part number code, see product datasheets for details.		
(hs) = heat sink type	<Blank> or AC = Air Cooled	CC = Conduction Cooled	
(temp) = Temperature rating	<Blank> or 0 = Commercial Operating 0 to +55 °C Storage -40 to +85 °C	1 = Industrial Operating -40 to +85 °C Storage -55 to +100 °C	4 = Military Operating -55 to +105 °C Storage -60 to +150 °C
(coat) = Conformal coating	<Blank> = None	A = Acrylic: Humiseal 1B31	P = Polyurethane: Humiseal 1A33
(PB) = Tin lead solder	<Blank> = Lead-free	PB = Tin-lead solder process	
(C#) = Custom code (i.e. /C7)	Additional customer specific requirements: Including alternative conformal coating materials, staking/corner bonding, component underfill, environmental screening, image pre-load, etc. Please contact sales@alpha-data.com for details		

Example:

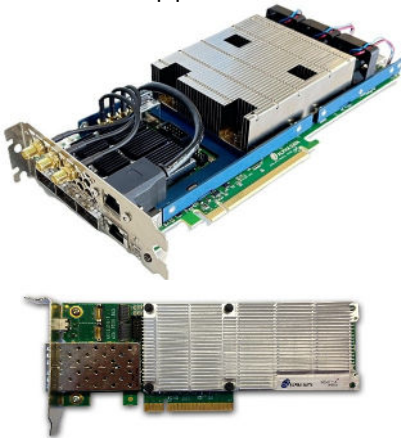
ADM-XA210/M18-2MSI/V88/CC1P/PB/C2 =

XMC, Versal VM1802 FPGA, VITA 88 connectors, conduction cooled, industrial, polyurethane, tin-lead solder, custom code C2

Heat sink types:

Air Cooled (Commercial)

Skived/machined aluminum/copper or aluminum zipper fins above a copper heat pipe heat sink.



Air Cooled (Industrial)

VPX: Machined metal frame with fins, guide rails, and front panel.
XMC: Finned metal frame within XMC envelope space with standoffs + bezel.



Conduction Cooled

VPX: Flat thermal interfaces along card edge with secondary side wedge locks.
XMC: Multi-piece heat sink kit used with gap filler for thermal coupling to carrier.



Environment Stress Ratings (VITA form factor, VPX and XMC)

Vibration	ANSI/VITA 47.1 Vibration Class V3	5 Hz to 100 H, PSD increasing at 3 dB/octave 100 Hz to 1000 Hz, PSD = 0.1 g ² /Hz 1000 Hz to 2000 Hz, PSD decreasing at 6 dB/octave
Shock	ANSI/VITA 47.1 Operating Shock Class OS2	40g, 11 millisecond, shock half-sine or 40g, 11 millisecond, terminal sawtooth shock
Humidity	ANSI/VITA 47.2	Up to 95% (non-condensing)
Altitude	ANSI/VITA 47.1 Altitude Class AV2	Down to 1,500 feet (460 meters) below sea level Up to 60,000 feet (18,300 meters) above sea level