

BlueField-2 SoC	BlueField-2 P-Series - 8 Cores - 550MHz/2750MHz
	MBF2H516C-CECOT(a): Crypto Enabled, Secure Boot Enabled MBF2H516C-CESOT: Crypto Disabled, Secure Boot Enabled MBF2H516C-CEUOT: Crypto Disabled, Secure Boot Enabled with UEFI Disabled MBF2H536C-CECOT(a): Crypto Enabled, Secure Boot Enabled MBF2H536C-CESOT: Crypto Disabled, Secure Boot Enabled MBF2H536C-CEUOT: Crypto Disabled, Secure Boot Enabled with UEFI Disabled
Physical	Card Dimensions (FHHL): 4.53 in. x 6.6 in. (115.15 mm x 167.65 mm) Bracket Dimensions: 4.73 in. x 0.72 in. (121.0mm x 18.4mm)
	Connector: Dual QSFP56 (copper and optical)
Interfaces	See Interfaces of MBF2H516C-CECOT, MBF2H516C-CESOT, MBF2H516C-CEUOT, MBF2H536C-CECOT, MBF2H536C-CESOT, MBF2H536C-CEUOT
	PCI Express Gen 4.0: SERDES @ 8.0GT/s / 16.0GT/s, 16 lanes (3.0, 2.0 and 1.1 compatible)
Protocol Support	Data Rate: 100/50/40/25//10/1 Gb/s Ethernet
	Ethernet: 100GBASE-CR4, 100GBASE-KR4, 100GBASE-SR4, 50GBASE-R2, 50GBASE-R4, 40GBASE-CR4, 40GBASE-KR4, 40GBASE-SR4, 40GBASE-LR4, 40GBASE-ER4, 40GBASE-R2, 25GBASE-R, 20GBASE-KR2, 10GBASE-LR, 10GBASE-ER, 10GBASE-CX4, 10GBASE-CR, 10GBASE-KR, SGMII, 1000BASE-CX, 1000BASE-KX, 10GBASE-SR
Onboard Memory	Single-channel with 8 DDR4 8 bit + ECC (64bit + 8bit ECC) 16GB or 32GB @ 3200MT/s (16GB for MBF2H516C-CECOT, MBF2H516C-CESOT, MBF2H516C-CEUOT; 32GB for MBF2H536C-CECOT, MBF2H536C-CESOT) 128GB eMMC memory
Capabilities	
DPU Power Supply, Consumption and Airflow	Voltage: 12V
	Maximum power available through QSFP56 port: 2.5W (per port)
	Power and airflow specifications are provided in NVIDIA

	BlueField-2 DPUs Power and Airflow Specifications document, which is available at NVOnline following login.		
Environmental	Temperature	Operational	0°C to 55°C
		Non-operational	-40°C to 70°C(b)
	Humidity	Operational	10% to 85% relative humidity
		Non-operational	10% to 90% relative humidity
Regulatory	Safety	CB / cTUVus / CE	
	EMC	CE / FCC / VCCI / ICES / RCM	
	RoHS	RoHS compliant	
Notes: (a) If your target application for this crypto-enabled card will utilize 100Gb/s or higher bandwidth, where a substantial part of the bandwidth will be allocated for IPsec traffic, please refer to the NVIDIA BlueField-2 DPUs Product Release Notes document to learn about a potential bandwidth limitation. See Related Documents section for details on accessing the document. (b) The non-operational storage temperature specifications apply to the product without its package.			