

KATIM



KATIM GATEWAY

THE BACKBONE OF ULTRA-SECURE
COMMUNICATION



KATIM GATEWAY FAMILY

Targeted Specifications Subject To Change



GATEWAY 9011



GATEWAY 9001



GATEWAY 9001-R



Variants	<ul style="list-style-type: none"> • 1Gbps, 4Gbps, 10Gbps • L2 or L3 	<ul style="list-style-type: none"> • 100M, 1Gbps • L2 or L3 	<ul style="list-style-type: none"> • 100M, up to 1Gbps • L2 or L3
Architecture	<ul style="list-style-type: none"> • Multi-layered security architecture in H/W and S/W • Multi-factor HW-based role-based management access controls • Full device lifecycle integrity protection from factory to decommissioning • Dedicated security MCU with internal always-on battery • Tamper detection / protection with emergency wipe • Several TRNGs from multiple vendors 		
	<ul style="list-style-type: none"> • Red/crypto/black separation on dedicated, programmable H/W • FIPS 140-2 level 4 design target for HW 	<ul style="list-style-type: none"> • Red/crypto/black separation on shared, programmable H/W • FIPS 140-3 level 4 design target for HW • QRNG in addition to TRNGs 	
Encryption	<ul style="list-style-type: none"> • Programmable hardware encryption engine • Standards-based or national Crypto Suite for user data and key exchange • Post-quantum resistant primitives • 512-bit or stronger keys for elliptic curves and 256-bit symmetric keys for 256-bit security • Custom-designed peer authentication, key exchange and data tunnelling protocol 		
I/O options	<ul style="list-style-type: none"> • Up to 4 active plain and 4 active cipher ports • SFP+: <ul style="list-style-type: none"> - 100 / 1000Base-T - 1000BASE-SX / LX - 10GBASE-SR / LR / ER • Built in 1 Gbps RX/TX diode 	<ul style="list-style-type: none"> • 1 active plain and 1 active cipher port • RJ-45: - 10 / 100 / 1000Base-T • SFP: - 1000BASE-SX / LX / EX • USB-C (future SW option) 	<ul style="list-style-type: none"> • 1 active plain and 1 active cipher port • Rugged RJ-45: 10 / 100 / 1000Base-T • Rugged SFP: 1000BASE-SX / LX / EX
Size	<ul style="list-style-type: none"> • 483(W) x 401(D) x 88.2(H) mm • 21.2 kg 	<ul style="list-style-type: none"> • 147(W) x 262(D) x 33(H) mm • 2 kg 	<ul style="list-style-type: none"> • 190(W) x 290(D) x 44(H) mm • 3.5 kg
Power & cooling	<ul style="list-style-type: none"> • Multi-fan, field replaceable • AC or DC redundant hot-swap PSUs 	<ul style="list-style-type: none"> • Small fan, field replaceable • External via USB-C DC input • Field replaceable 	<ul style="list-style-type: none"> • Passive cooling • External via 12/24/48 DC rugged input
Environment	<ul style="list-style-type: none"> • Temp: 0° to 50°C • Altitude: 0m – 5,000m 	<ul style="list-style-type: none"> • Temp: 0° to 50°C • Altitude: 0m – 5,000m 	<ul style="list-style-type: none"> • Temp: -40° to +60°C • MIL-STD 810H for altitude, humidity, rain, sand/dust, shock, vibration, drop • MIL-STD 461G for EMI/EMC
S/W features	<ul style="list-style-type: none"> • KATIM Gateway OS L2 and L3 • P2P, (M)P2MP feature-set • Optimized for large sites, hub locations 	<ul style="list-style-type: none"> • KATIM Gateway OS L2 and L3 • P2P, (M)P2MP feature-set • Optimized for small sites, spoke/remote locations 	