

Smart Edge Computing



SYS-B68-IGW

Boxed solution based on the Intel® Celeron® J / N Series and Intel® Pentium® N Series (formerly Apollo Lake) Processors

Smart Edge Compute Unit, a multi-connectivity and multi-protocol plug & play Industrial IoT gateway



HIGHLIGHTS



CPU
Intel® Celeron® J / N Series and Intel® Pentium® N Series



GRAPHICS
Integrated Intel® HD Graphics 505 or 500 series controller



CONNECTIVITY
2x GbE; WWAN and WLAN M.2 module slots



MEMORY
Up to 8GB LPDDR4 memory



Wind River Partner Program
PLATINUM



MAIN FIELDS OF APPLICATION



Edge Computing



Industrial
automation and
control



Energy



Internet of
Things

FEATURES

Processor	Intel® Pentium® N4200 Quad Core @1.1GHz (burst 2.5GHz), 2MB L2 Cache, 6W TDP Intel® Celeron® N3350 Dual Core @1.1GHz (burst 2.4GHz), 2MB L2 Cache, 6W TDP Intel® Celeron® J3455, Quad Core @1.5GHz (Burst 2.3GHz), 2MB L2Cache, 10W TDP Intel® Celeron® J3355, Dual Core @2.0GHz (Burst 2.5GHz), 2MB L2Cache, 10W TDP	Other Interfaces	Power Button Power On Status LED
Memory	Quad Channel soldered down LPDDR4 memory, up to 8GB	Power Supply	DC Power jack, with cable restraint, type DC-062-4-2.5-S214 +18V _{DC} ÷ +32 V _{DC} recommended +15V _{DC} ÷ +36 V _{DC} absolute Min power required, 40W
Graphics	Integrated Intel® HD Graphics 505 or 500 series controller, with up to 18 Execution Units 4K HW decoding and encoding of HEVC(H.265), H.264, VP8, SVC, MVC Dual independent display	Operating System	Preinstalled OS (factory options): • Microsoft Windows 10 IoT entry • Linux Ubuntu 64-bit Available on request: • Wind River Linux (64-bit) • Yocto (64-bit) • Android (planning)
Video Interfaces	Two multimode Display Port on miniDP++ connectors	Operating Temperature*	0°C ÷ +60°C (in presence of air flow)
Video Resolution	Up to 4096 x 2160	Optional accessories	miniDP++ to HDMI adapter Customised bracket for wall mount
Mass Storage	Optional eMMC drive onboard Optional SATA M.2 SSD module up to 512GB	Dimensions	162.3 x 109.3 x 42.4 mm
Networking	2 x Gigabit Ethernet ports M.2 Socket 2 Key B Slot for Modem modules (alternative to M.2 SSD), connected to internal microSIM Slot M.2 Socket 1 Key E Slot for WiFi/BT modules	*Environment temperature measured near the heatsink 's fins. Upon costumer to verify that the temperature remains within the ammissible range.	
USB	2 x USB 3.0 Type-A sockets on Front Panel 2 x USB 2.0 Type-A sockets on Rear Panel		
Audio	Internal HD Audio codec Cirrus Logic CS4207 Mic In and Line Out Audio jacks		



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BLOCK DIAGRAM

