



Goldcap instead of battery backup No moving parts Scalable CPU core Hardware watchdog Temperature supervision Intelligent power management system ESD- protection on all interfaces Long term availability Shock and vibration resistant Intel[®] Atom[™] E3800 Series up to 1.91GHz, up to 4 Cores RAM soldered on board up to 8GB Socket for CFast Graphic resolution up to WUXGA Ethernet, USB, CAN M12 connectors Stainless steel housing Protection class IP40 EN50155 certified (OT4)

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Your partner for reliable embedded computer and display solutions.



Order Code IPC/RML8H19-A101E¹

	Order	Code	IPC/RML8H19-A101E ¹
rocessor / Performance			
el® Atom™ E3845 1.91GHz 64-bit - Quad Core			•
lemory			
2 cache			1MB
DDR3 RAM			4GB
Fast memory card (Cactus Technologies KC128GFI-240S, 15nm MLC NAND)			128GB
Features			
Real time clock PC compatible with goldcap backup			•
Hardware Watchdog & Temperature supervisor			•
ntelligent power management (Ignition controller)			•
nertial measurement unit (IMU)			•
PM2.0 (SLB9665)			optional
Communication Interfaces			
DisplayPort up to 2560 x 1600px			1
CFast socket with retention frame ²			1
JSB version 2.0	(Type A with cover)		1
JSB version 3.0	(Type A with cover)		1
ithernet 10/100Mbit (I210-IT)	(M12 female d-coded)		1
ithernet 10/100Mbit (I210-IT) with 24V, 500mA Power non isolated to internal electroni			1
S232 ESD protected	(DSUB9)		1
8422/485 ESD protected and galv. isolated	(DSUB9)		1
assive CAN (SJA1000 compatible, listen only) ESD protected, isolated	(DSUB9)		2
Digital input (24 / 110VDC) isolated	(Weidmüller BCZ Series or similar) ³		3
Counter input (24V, 32bit 1khz) isolated	(Weidmüller BCZ Series or similar) ³		1
Analog input (0 - 30 VDC accuracy ±2%)	(DSUB9 or similar) ³		2
TE Celluar Module with dual SIM Support u-blox MPCI-L210 Module (TOBY-L210) - M2M only!	(2x SMA)		1
Positioning Wireless Module (GPS) u-blox NEO-M8U Module incl. acceleration sensor Bluetooth v4.0 with Bluetooth low energy USB Adopter Parani-UD100 Module	(SMA) (RP-SMA)		1
Aini PCIe socket ²	(RP-SIMA)		1
Buzzer			•
Fechnical Data			
			w278 x h80 x d155
Dimensions in mm (housing)			
Net weight in gram solated input voltage (with ignition controller and reverse polarity protection	(M12 4P male A-coded)		~2250 16.8 45VDC
Von isolated wide input voltage (with reverse polarity protection)	(M12 4P male A-coded)		16.8 137.5VDC
nterruption of voltage supply time: EN50155 (>10ms)	(WITZ 4P ITIBLE A-COULED)		Class S2
Current consumption typ. in mA @ 24V without Add-Ins, idle			~625
Power consumption typ. in Watt @ 24V without Add-Ins, idle			~15
Environmental Conditions			15
Derating temperature			-40°C +70°C
itorage temperature			-40°C +85°C
Protection standard: IP40			•
Conformal coating			•
hock: EN60068-2-27 / EN61373			designed to meet
/ibration: EN60068-2-64 / EN61373			designed to meet
MI-Conformity EN-50121-3-2			designed to meet
afety according to EN62368-1			designed to meet
ire protection: DIN EN 45545-2			designed to meet
adio and Telecommunication: RED			designed to meet
stimated MTBF ~ 100 000h (11.4 Years) @ 20°C excluding battery and S2 power supply			•
Enhancement cards			
VI AN on mPCle			ontional
lease contact factory for minimum order quantities			optional
rease contact factory for minimum order quantities nternal connector			
Vating plug type for process interface connection: Weidmüller BCZ Series or similar Depending on installation situation and interface connection. Please see user documentation.			
oduct specifications subject to change without notice. All data is for information purposes only and not guaranteed for legal purposes. Informatic ase refer to the user documentation for additional product specification.	on in this data sheet has been carefully checked and is believed to be a	iccurate. Howeve	r, no responsibility is assumed for inac
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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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