

Specifications

ETC-F019(L7) Intel Atom E3845 1.91GHz Vehicle Mounted

|                          |                                                                                                                                                                 |                                                                                                                                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                     | ETC-F019(L7)                                                                                                                                                    |                                                                                                                                                                                                                                                                                             |
| CPU                      | Processor                                                                                                                                                       | Intel Atom Processor E3845 1.91 GHz                                                                                                                                                                                                                                                         |
|                          | Core / Thread                                                                                                                                                   | 4 / 4                                                                                                                                                                                                                                                                                       |
| Chip Set                 | Northbridge (built into processor)                                                                                                                              |                                                                                                                                                                                                                                                                                             |
| Main Memory              | 4GB(2GB+2GB)(DDR3L-1333)                                                                                                                                        |                                                                                                                                                                                                                                                                                             |
| BIOS/Loader              | Phoenix SecureCore Technology                                                                                                                                   |                                                                                                                                                                                                                                                                                             |
| Graphics                 | Controller                                                                                                                                                      | Built into CPU / chip set                                                                                                                                                                                                                                                                   |
|                          | Video Memory                                                                                                                                                    | Main Memory (partial use)                                                                                                                                                                                                                                                                   |
|                          | Resolution                                                                                                                                                      | 2560×1600, 2560×1440, 2560×1080, 1920×1440, 1920×1200, 1920×1080, 1680×1050, 1600×1200,1280×1024, 1280×800,1152×864, 1024×768, 800×600, 720×576<br>* Maximum resolutions may vary depending on display monitor's resolution<br>* May not display on some types of connected display monitor |
| OS                       | Interface Linux System 7 (32bit) (Japanese/English)                                                                                                             |                                                                                                                                                                                                                                                                                             |
| Boot Device              | CFast 16GB                                                                                                                                                      |                                                                                                                                                                                                                                                                                             |
| Auxiliary Device         | CFast (sold separately)                                                                                                                                         |                                                                                                                                                                                                                                                                                             |
| OS Size                  | 2.7GB                                                                                                                                                           |                                                                                                                                                                                                                                                                                             |
| Switches                 | Power Switch, CAN Terminating Resistor Setting Switch                                                                                                           |                                                                                                                                                                                                                                                                                             |
| LED                      | Power Indicator LED, Disk Access LED                                                                                                                            |                                                                                                                                                                                                                                                                                             |
| Interfaces               | USB                                                                                                                                                             | 5 ports (USB Rev.3.0/2.0 Series A connector x 1, USB Rev.2.0 Series A connector x 4)<br>Current: 1.0A or less/port, Total Current: 1.0A or less<br>1000BASE-T/100BASE-TX/10BASE-T, Wake On LAN compatible                                                                                   |
|                          | LAN                                                                                                                                                             | 2 port (RJ-45 connector)<br>WG1210IT(Intel)<br>1000BASE-T/100BASE-TX/10BASE-T, Wake On LAN compatible                                                                                                                                                                                       |
|                          | Audio                                                                                                                                                           | Realtek ALC898<br>Line Output : ϕ3.5 minijack×1(stereo) (Impedance : 75Ω)<br>Mic Input : ϕ3.5minijack×1(stereo) (Impedance : 16kΩ(TYP))                                                                                                                                                     |
|                          | Display                                                                                                                                                         | 1 port (DisplayPort v1.1a)                                                                                                                                                                                                                                                                  |
|                          | Serial Communications (RS-232C)                                                                                                                                 | Channel : 2 (non-insulated)<br>Connector : 9-pin D-sub connector<br>Transfer Rate : 115.2kbps                                                                                                                                                                                               |
|                          | CAN Interface                                                                                                                                                   | Channel : High-speed CAN 1 channel (not isolated)<br>Connector: 9-pin D-sub connector (male)                                                                                                                                                                                                |
|                          | Digital Input                                                                                                                                                   | Points : 4 (non-insulated)output x 1<br>Connector : 16-pin flat cable connector<br>Spec : Photo coupler input (sink/source type output compatible)<br>Voltage : DC+12V~DC+24V                                                                                                               |
|                          | Relay Contact Output                                                                                                                                            | Points : 4 (isolated)<br>Connector : 16-pin flat cable connector<br>Spec : Photo MOS relay (1a contact)<br>Max Load Voltage : AC35V /DC50V                                                                                                                                                  |
| External Dimensions      | 210(W) x 150(D) x 29(H) [mm]                                                                                                                                    |                                                                                                                                                                                                                                                                                             |
| Power-supply Voltage     | Max Rated Voltage: DC+0V~DC+40V<br>Operating Voltage: DC+7V~DC+37V                                                                                              |                                                                                                                                                                                                                                                                                             |
| Maximum Input Power      | 40W                                                                                                                                                             |                                                                                                                                                                                                                                                                                             |
| Power Consumption        | 7.2W(TYP), 15.4W(MAX)                                                                                                                                           |                                                                                                                                                                                                                                                                                             |
| Input Max Power Capacity | 40W                                                                                                                                                             |                                                                                                                                                                                                                                                                                             |
| Enclosure Fan            | NO                                                                                                                                                              |                                                                                                                                                                                                                                                                                             |
| Calendar Clock           | Accuracy : Within 1 min. per month (stored on 25°C)<br>Battery Life time: Approx. 10 years (powered 8 hrs./day under 25°C),<br>BR-1/2AA (Panasonic Corporation) |                                                                                                                                                                                                                                                                                             |
| RAS                      | Hardware Monitoring                                                                                                                                             | Software programmable (1 to 255 seconds)<br>Time-up notification is software selectable reset or interruption                                                                                                                                                                               |
|                          | RAS Output                                                                                                                                                      | Board temperature/CPU temperature/ power supply voltage                                                                                                                                                                                                                                     |
|                          | External I/O                                                                                                                                                    | 1 port (4-pin connector, e-CON)<br>Power ON/OFF x 1, RAS output x1                                                                                                                                                                                                                          |
| Environmental Resistance | Vibration / Shock                                                                                                                                               | Vibration resistance: ~5.0 G<br>Impact resistance : ~100G (non-operational)                                                                                                                                                                                                                 |
|                          | Noise                                                                                                                                                           | Electrostatic Discharge Immunity: Contact discharge ±6kV, air discharge: ±8kV<br>Radiated Electromagnetic field immunity: 10V/m<br>Conducted disturbances Immunity : 10V<br>FTB : signal line 1kV, power line 2kV                                                                           |
| Operating Conditions     | Ambient Temperature: -30°C ~+70°C (continuous operation),<br>-30°C ~+80°C (bootu0p),<br>Humidity: 10 % to 90 % (non-condensing)                                 |                                                                                                                                                                                                                                                                                             |
| Pre-installed OS         | Interface Linux System 7 (32bit) (Japanese/English)                                                                                                             |                                                                                                                                                                                                                                                                                             |
| MTBF                     | 137936 Hrs.                                                                                                                                                     |                                                                                                                                                                                                                                                                                             |
| JAN CODE                 | 4957451590108                                                                                                                                                   |                                                                                                                                                                                                                                                                                             |



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