**BOLYMIN, INC.**

**Hardware Specifications**

**Processor**
- Microchip PIC24FJ64GA002 16-bit microprocessor

**Memory**
- 64KB in-system programmable flash
- 8KB internal SRAM
- 64KB x 1 external I²C CMOS EEPROM (option: 64KBx2)

**Display Interface**
- Support I²C 20 x 2 character monochrome STN LCD (edge LED white backlight)

**RS232 / 422 / 485 Port**
- Support dual serial port, one is three-wired RS232, another is shared in among RS232/422/485 port by option

**Software Utilities**
- Support RS232 / 422 / 485 driver, I²C EEPROM driver, and LCM driver for free

**DC Requirement**
- DC4.5V~5.5V

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**Features**

- High performance, Low power PIC 16-bit microprocessor
- Built-in 64KB ISP Flash memory / 8KB SRAM
- On board updateable 64KB EEPROM (128KB option)
- 1 x RS485 / 422 / 232, 1 x RS232
- Current consumption 35mA
- 20 x 2 character monochrome STN LCD, with font bank
- On-chip power-on reset (POR) and programmable watchdog reset
- Comprehensive set of development tools and application notes for self programming
- RS485 / 422 / 232 driver, I²C EEPROM driver, LCM driver and utility are supported
- Dimension (W x H x D): 116 x 37 x 15mm

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Your 64KB application program here!
BEGV606M

Packing List
- BEGV606M Embedded System
- User Manual
- Software Utility Disc
- ICD 3 and ISP Cable (option)

BEGV606M BLOCK DIAGRAM

Pic 16-bit Microprocessor
64KB ISP Flash
8KB Internal SRAM

PC

64KB x 1 EEPROM
(64KB x 2 option)

RS232
RS232
RS-485
RS-422

IO

Display: FSTN/Gray LCD, LED/White Backlight (Default)

Pin Mapping Table

<table>
<thead>
<tr>
<th>PIN NO.</th>
<th>Signal</th>
<th>PIN NO.</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VDD</td>
<td>7</td>
<td>422TP/485P/TX1</td>
</tr>
<tr>
<td>2</td>
<td>GND</td>
<td>8</td>
<td>IOA</td>
</tr>
<tr>
<td>3</td>
<td>422RP</td>
<td>9</td>
<td>422TN/485N/RX1</td>
</tr>
<tr>
<td>4</td>
<td>TX0</td>
<td>10</td>
<td>IOB</td>
</tr>
<tr>
<td>5</td>
<td>422RN</td>
<td>11</td>
<td>/RST</td>
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<tr>
<td>6</td>
<td>RX0</td>
<td>12</td>
<td>IOC</td>
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Order Information

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<tr>
<th>Parts NO.</th>
<th>Description</th>
<th>RS232-A</th>
<th>RS232-B</th>
<th>RS422</th>
<th>RS485</th>
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<tbody>
<tr>
<td>BEGV606M</td>
<td>Dual RS232</td>
<td>✫</td>
<td>✫</td>
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<td>BEGV606M1</td>
<td>One RS232</td>
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<td>One RS232/One RS422</td>
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<td>One RS232/One RS485</td>
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</table>

Display: FSTN/Gray LCD, LED/White Backlight (Default)
BOLYMIN, INC.

Display Embedded System

- MICROCHIP PIC 16bit microprocessor
  - PIC24FJ64GA004
  - 64K Bytes In-system programmable flash
  - 8K Bytes SRAM

- MICROCHIP PIC 16bit microprocessor
  - PIC24FJ64GA002
  - 64K Bytes In-system programmable flash
  - 8K Bytes SRAM

BEGV606M/627M/629M/639M

- 128 x 64 STN
- 240 x 64 STN
- 128 x 64 OLED
- 20 x 2 STN
- 128 x 64 OLED

- RS232
- Isolated / isolated RS-485 / RS-422
- RS232

- (PLC)
- (Terminal)
- (Real-time clock)
- (A/D Converter)