



SIMATIC S7-400,  
FM458-1 DP APPLICATION MODULE FOR SIMATIC S7-400

| Supply voltage                                        |            |
|-------------------------------------------------------|------------|
| 5 V DC                                                | Yes        |
| 24 V DC                                               | Yes        |
| permissible range (ripple included), lower limit (DC) | 4.8 V      |
| permissible range (ripple included), upper limit (DC) | 5.25 V     |
| Input current                                         |            |
| Current consumption, typ.                             | 1.5 A      |
| Current consumption, max.                             | 3 A        |
| Memory                                                |            |
| Backup                                                |            |
| present                                               | Yes ; SRAM |
| Battery                                               |            |
| Backup battery                                        |            |
| Battery operation                                     | Yes        |
| Backup current, max.                                  | 15 µA      |
| Hardware configuration                                |            |
| Slots                                                 |            |
| required slots                                        | 1          |

|                                                             |                                          |
|-------------------------------------------------------------|------------------------------------------|
| <b>Time of day</b>                                          |                                          |
| <b>Clock</b>                                                |                                          |
| <b>Hardware clock (real-time clock)</b>                     | Yes                                      |
| <b>Resolution</b>                                           | 500 ms                                   |
| <b>Digital inputs</b>                                       |                                          |
| <b>Number of digital inputs</b>                             | 8 ; Connector X2                         |
| <b>Input voltage</b>                                        |                                          |
| <b>Rated value, DC</b>                                      | 24 V                                     |
| <b>for signal "0"</b>                                       | -1 to +6 V                               |
| <b>for signal "1"</b>                                       | 13.5 V to 33 V                           |
| <b>Input current</b>                                        |                                          |
| <b>for signal "0", max. (permissible quiescent current)</b> | 0 mA                                     |
| <b>for signal "1", typ.</b>                                 | 3 mA ; at 24 V                           |
| <b>Input delay (for rated value of input voltage)</b>       |                                          |
| <b>for standard inputs</b>                                  |                                          |
| <b>at "0" to "1", max.</b>                                  | 5 µs                                     |
| <b>Interfaces</b>                                           |                                          |
| <b>PROFIBUS DP</b>                                          |                                          |
| <b>Equidistance</b>                                         | Yes ; With connection to interrupt tasks |
| <b>Direct data exchange (slave-to-slave communication)</b>  | Yes                                      |
| <b>Interrupts/diagnostics/status information</b>            |                                          |
| <b>Alarms</b>                                               |                                          |
| <b>Alarms</b>                                               | Yes                                      |
| <b>Galvanic isolation</b>                                   |                                          |
| <b>Galvanic isolation digital inputs</b>                    |                                          |
| <b>Galvanic isolation digital inputs</b>                    | No ; only via optional interface modules |
| <b>Weights</b>                                              |                                          |
| <b>Weight, approx.</b>                                      | 1000 g                                   |
| Status                                                      | Jun 30, 2014                             |