

## Beckhoff — CX Embedded PC Systems

# CX1020-N041



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The **CX1020-N041** is a plug-in module for the Beckhoff CX Embedded PC Systems series. Developed by Beckhoff, it adds isolated serial connectivity to a CX1020 controller, enabling communication with field devices in distributed automation applications. The module attaches directly to the system bus and occupies minimal DIN-rail space, allowing serial networks to be integrated without a separate gateway. Its compact format supports installations where control cabinet space is limited and additional communication interfaces must remain close to the embedded controller.

The module's housing measures **19 mm** in width, **51 mm** in depth, and **100 mm** in height, so it aligns with the standard CX1020 profile and fits within common cabinet clearances. With an enclosure rating of **IP20**, it is intended for mounting inside a closed control panel that prevents direct finger contact with energized parts. Electrical power is supplied **through the system bus**, removing the need for an additional supply connector and keeping power wiring concentrated on the base CPU. Two 9-pin D-Sub plugs on the front panel provide the serial connections. Their male configuration supports the use of commonly available molded or ribbon cables, while the front-facing arrangement keeps both connections accessible after the module is installed on the DIN rail.

Each physical port implements **RS422/RS485 signaling**, supporting either multidrop two-wire communication or point-to-point four-wire cabling across extended distances in electrically noisy industrial settings. The transceivers support a maximum data rate of **115 kbaud**, which is suitable for cyclic status polling and parameter transfers involving drives, barcode readers, or remote I/O devices. The operating system assigns the ports as **COM3 (X410)**

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**and COM4 (X411)**, allowing application software to access each channel directly during operation. The device tolerates up to **95% relative humidity without condensation**, supporting stable operation in enclosed switchgear rooms where humidity is controlled but may vary with plant conditions.

## Specifications

|                               |                                                         |                            |                          |                                       |                                        |
|-------------------------------|---------------------------------------------------------|----------------------------|--------------------------|---------------------------------------|----------------------------------------|
| <b>Connector Type:</b>        | 2 x 9-pin D-Sub plug                                    | <b>Depth:</b>              | 51 mm                    | <b>Dimensions (w X H X D):</b>        | 19 mm x 100 mm x 51 mm                 |
| <b>Emc Immunity/emission:</b> | Conforms to EN 61000-6-2/EN 61000-6-4                   | <b>Height:</b>             | 100 mm                   | <b>Interfaces:</b>                    | 1 x COM3 + 1 x COM4, RS422/RS485       |
| <b>Max Baud Rate:</b>         | 115 kbaud                                               | <b>Max Humidity:</b>       | 95% no condensation      | <b>Operating/storage Temperature:</b> | 0...+55°C/-25...+85°C                  |
| <b>Port Count:</b>            | 2                                                       | <b>Port Ids:</b>           | COM3 (X410), COM4 (X411) | <b>Power Supply:</b>                  | Via system bus                         |
| <b>Properties:</b>            | Max. baud rate 115 kbaud, not combinable with N030/N040 | <b>Protection Class:</b>   | IP20                     | <b>Protection Rating:</b>             | IP20                                   |
| <b>Serial Interface:</b>      | RS422/RS485                                             | <b>Type Of Connection:</b> | 2 x D-sub socket, 9-pin  | <b>Vibration/shock Resistance:</b>    | Conforms to EN 60068-2-6/EN 60068-2-27 |
| <b>Weight:</b>                | Approx. 80 g                                            | <b>Width:</b>              | 19 mm                    | <b>Last Verified:</b>                 | 10/24/2026 1:05 AM                     |

## Contact Us

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### Shipping Options



### Payment Methods



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