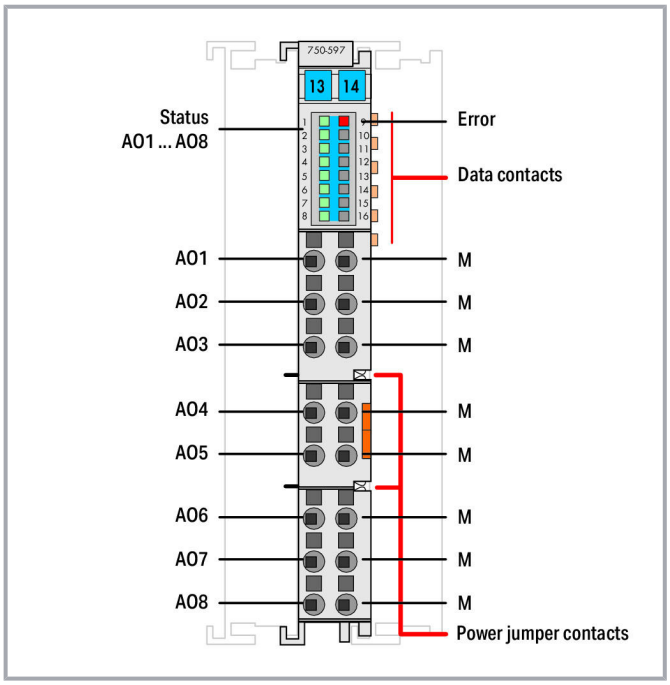
# Data sheet | Item number: 750-597

8-channel analog output; 0 … 10 V/±10 VDC

www.wago.com/750-597




Subject to changes. Please also observe the further product documentation!

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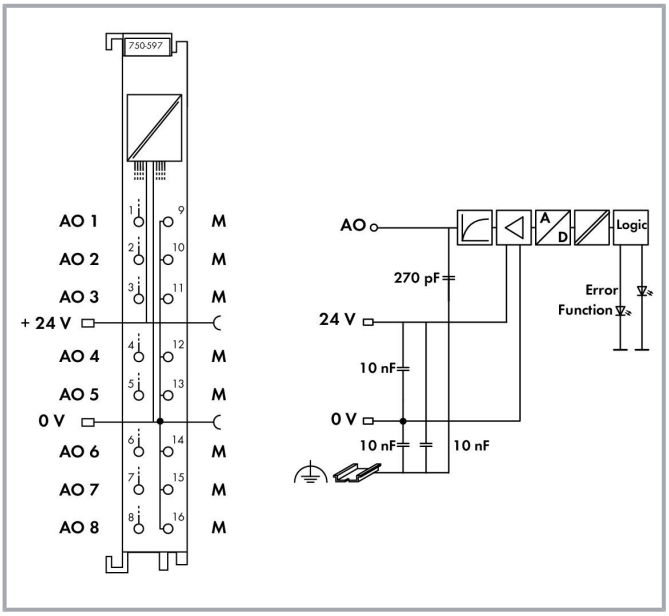


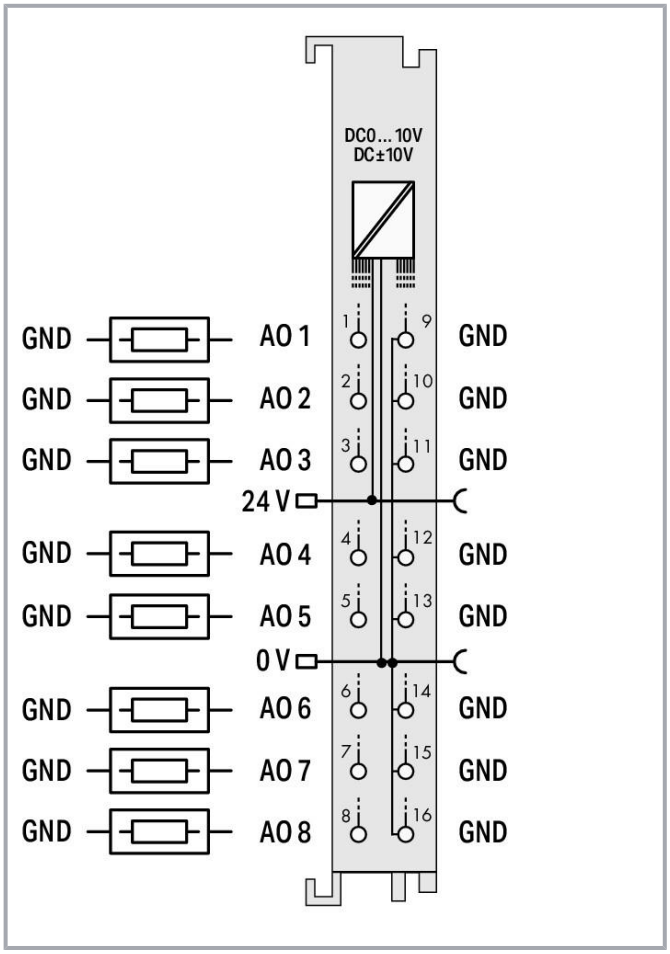


## Item description

This analog output module generates signals of standard magnitudes 0-10 V and ±10 V. The output signal is electrically isolated and transmitted with a resolution of 12 bits.
Both the internal system and 24 V field side supply power the module.
The module's output channels have a common ground potential.
The module detects a 24 V field supply failure. The status is transmitted to the fieldbus coupler and indicated by an LED.
The module can be configured via WAGO-I/O-CHECK or GSD files.

## Data

### Technical data

| | |
|---|---|
| Number of analog outputs | 8 |
| Total number of channels (module) | 8 |
| Signal type | Voltage |
| Voltage signal type | 0 … 10 VDC |

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| | |
|---|---|
| Actuator connection | 8 x (2-wire) |
| Resolution [bit] | 12 bits |
| Data width | 8 x 16-bit data; 8 x 8-bit control/status (optional) |
| Load impedance (voltage output) | ≥ 2 kΩ |
| Conversion time (typ.) | 13 ms |
| Measurement error (reference temperature) | 25 °C |
| Measurement error – deviation (max.) from the upper-range value | 0.1 % |
| Output error, deviation (max.) of the upper-range value | 0.1 % |
| Temperature coefficient | ≤ ±10 ppm/K of the largest output area |
| Supply voltage (system) | 5 VDC; via data contacts |
| Power consumption (5 V system supply) | 61 mA |
| Supply voltage (field) | 24 VDC (-15 … +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact) |
| Isolation | 500 V system/field |
| Number of incoming power jumper contacts | 2 |
| Number of outgoing power jumper contacts | 2 |

## Connection data

| | |
|---|---|
| Connection technology: inputs/outputs | 16 x Push-in CAGE CLAMP® |
| Connection type (1) | Inputs/Outputs |
| Solid conductor | 0.08 … 1.5 mm² / 28 … 16 AWG |
| Fine-stranded conductor | 0.25 … 1.5 mm² / 22 … 16 AWG |
| Strip length | 8 … 9 mm / 0.31 … 0.35 inch |

## Physical data

| | |
|---|---|
| Width | 12 mm / 0.472 inch |
| Height | 100 mm / 3.937 inch |
| Depth | 69 mm / 2.717 inch |
| Depth from upper edge of DIN-rail | 61.8 mm / 2.433 inch |

## Mechanical data

| | |
|---|---|
| Mounting type | DIN-35 rail |

## Material data

| | |
|---|---|
| Color | - |
| Housing material | Polycarbonate; polyamide 6.6 |

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| | |
|---|---|
| Fire load | 0.809 MJ |
| Weight | 48 g |
| Conformity marking | CE |

## Environmental requirements

| | |
|---|---|
| Surrounding air temperature (operation) | 0 … 55 °C |
| Surrounding air temperature (storage) | -40 … 85 °C |
| Protection type | IP20 |
| Pollution degree (5) | 2 per IEC 61131-2 |
| Operating altitude | 0 … 2000 m |
| Mounting position | horizontal (standing/lying); vertical |
| Relative humidity (without condensation) | 95 % |
| Vibration resistance | per IEC 60068-2-6 |
| Shock resistance | 15g per IEC 60068-2-27 |
| EMC immunity to interference | per EN 61000-6-2 |
| EMC emission of interference | per EN 61000-6-3 |
| Exposure to pollutants | Per IEC 60068-2-42 and IEC 60068-2-43 |
| Permissible $H_2S$ contaminant concentration at a relative humidity 75 % | 10 ppm |
| Permissible $SO_2$ contaminant concentration at a relative humidity 75 % | 25 ppm |

## Commercial data

| | |
|---|---|
| PU (SPU) | 1 Stück |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4055143432146 |
| Customs tariff number | 85389099990 |

## Approvals / Certificates

### Ex-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **ATEX**<br>TUEV Nord Cert GmbH | EN 60079-0 | TUEV_14_ATEX_148929_X<br>(II 3 G Ex ex IIC T4 Gc) |
| | **CCCEx**<br>CQST/CNEx | CNCA-C23-01 | 2020312310000213 (Ex nA IIC T4 Gc) |

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| | | | |
|---|---|---|---|
| | **IECEx**<br>TUEV Nord Cert GmbH | IEC 60079-0 | IECEx_TUN_14.0035_X (Ex ec IIC T4 Gc) |
| | **UL**<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201 | E198726 Sec.1 |

**Country specific Approvals**

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **EAC**<br>Brjansker Zertifizierungsstelle | TP TC 020/2011 | EAC RU C-DE.AM02.B.00087/19 |
| | **KC**<br>National Radio Research Agency | Article 58-2, Clause 3 | MSIP-REM-W43-AOM750 |

**UL-Approvals**

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **UL**<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 61010-2-201 | E175199 |

## Optional accessories

**Supply module**

Supply module

| | | |
|---|---|---|
| | **Item no.: 750-601**<br>Power Supply; 24 VDC; fuse holder | www.wago.com/750-601 |
| | **Item no.: 750-610**<br>Power Supply; 24 VDC; fuse holder; Diagnostics | www.wago.com/750-610 |
| | **Item no.: 750-602**<br>Power Supply; 24 VDC | www.wago.com/750-602 |

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| | | |
|---|---|---|
| | **Item no.: 750-612**<br>Power Supply; 0 … 230 V AC/DC | www.wago.com/750-612 |

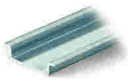
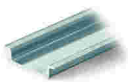
**Shield termination**

Shield clamping saddle

| | | |
|---|---|---|
| | **Item no.: 790-116**<br>Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 … 16 mm | www.wago.com/790-116 |
| | **Item no.: 790-124**<br>Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 … 24 mm | www.wago.com/790-124 |
| | **Item no.: 790-108**<br>Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 … 8 mm | www.wago.com/790-108 |
| | **Item no.: 790-140**<br>Shield clamping saddle; diameter of compatible conductor | www.wago.com/790-140 |
| | **Item no.: 790-216**<br>Shield clamping saddle; 21.8 mm wide; 6 … 16 mm | www.wago.com/790-216 |
| | **Item no.: 790-220**<br>Shield clamping saddle; 30 mm wide; 6 … 20 mm | www.wago.com/790-220 |
| | **Item no.: 790-208**<br>Shield clamping saddle; 12.4 mm wide; 3 … 8 mm | www.wago.com/790-208 |

**Carrier rail**

Mounting accessories

| | | |
|---|---|---|
|  | **Item no.: 210-197**<br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored | www.wago.com/210-197 |
|  | **Item no.: 210-198**<br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored | www.wago.com/210-198 |
|  | **Item no.: 210-504**<br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored | www.wago.com/210-504 |
|  | **Item no.: 210-505**<br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored | www.wago.com/210-505 |
|  | **Item no.: 210-506**<br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored | www.wago.com/210-506 |
|  | **Item no.: 210-508**<br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored | www.wago.com/210-508 |
|  | **Item no.: 210-113**<br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored | www.wago.com/210-113 |



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Item no.: 210-118
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored
www.wago.com/210-118



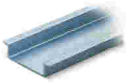
Item no.: 210-112
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored
www.wago.com/210-112



Item no.: 210-114
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored
www.wago.com/210-114



Item no.: 210-115
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored
www.wago.com/210-115



Item no.: 210-196
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored
www.wago.com/210-196

**Marking accessories**

Marker carrier

Item no.: 750-103
Group marker carrier
www.wago.com/750-103

Marker

Item no.: 2009-145/000-006
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue
www.wago.com/2009-145/000-006

Item no.: 2009-145
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white
www.wago.com/2009-145

Item no.: 2009-145/000-002
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow
www.wago.com/2009-145/000-002

Item no.: 2009-145/000-007
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray
www.wago.com/2009-145/000-007

Item no.: 2009-145/000-005
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red
www.wago.com/2009-145/000-005

Item no.: 2009-145/000-012
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange
www.wago.com/2009-145/000-012

Item no.: 2009-145/000-023
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green
www.wago.com/2009-145/000-023

Item no.: 2009-145/000-024

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| | | |
|---|---|---|
| | Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet | www.wago.com/2009-145/000-024 |
|  | **Item no.: 248-501/000-006**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue | www.wago.com/248-501/000-006 |
|  | **Item no.: 248-501/000-007**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray | www.wago.com/248-501/000-007 |
|  | **Item no.: 248-501/000-002**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow | www.wago.com/248-501/000-002 |
|  | **Item no.: 248-501/000-012**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange | www.wago.com/248-501/000-012 |
|  | **Item no.: 248-501**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white | www.wago.com/248-501 |
|  | **Item no.: 248-501/000-017**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green | www.wago.com/248-501/000-017 |
|  | **Item no.: 248-501/000-005**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red | www.wago.com/248-501/000-005 |
|  | **Item no.: 248-501/000-024**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet | www.wago.com/248-501/000-024 |
|  | **Item no.: 248-501/000-023**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green | www.wago.com/248-501/000-023 |
| Group marker carrier | | |
| | **Item no.: 750-107**<br>Group marker carrier | www.wago.com/750-107 |
| **System housing** | | |
| System enclosure | | |
| | **Item no.: 850-814/002-000**<br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate | www.wago.com/850-814/002-000 |

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| | | |
|---|---|---|
| | **Item no.: 850-815/002-000**<br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate | www.wago.com/850-815/002-000 |
| | **Item no.: 850-816/002-000**<br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate | www.wago.com/850-816/002-000 |
| | **Item no.: 850-817/002-000**<br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate | www.wago.com/850-817/002-000 |
|  | **Item no.: 850-825**<br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20 | www.wago.com/850-825 |
|  | **Item no.: 850-826**<br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip | www.wago.com/850-826 |
|  | **Item no.: 850-827**<br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip | www.wago.com/850-827 |
| | **Item no.: 850-827/002-000**<br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip | www.wago.com/850-827/002-000 |
| | **Item no.: 850-826/002-000**<br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip | www.wago.com/850-826/002-000 |
| | **Item no.: 850-828/002-000**<br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip | www.wago.com/850-828/002-000 |
|  | **Item no.: 850-828**<br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip | www.wago.com/850-828 |
| | **Item no.: 850-834**<br>IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20 | www.wago.com/850-834 |
| | **Item no.: 850-835**<br>IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip | www.wago.com/850-835 |
| | **Item no.: 850-836**<br>IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip | www.wago.com/850-836 |

**Tool**

Operating tool

| | | |
|---|---|---|
|  | **Item no.: 210-719**<br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | www.wago.com/210-719 |

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## Downloads

### Documentation

#### Manual

| | | | |
|---|---|---|---|
| System Manual WAGO I/O System 750 / 753<br>Decentralized Automation Technology | V 3.0.3<br>17-Nov-2021 | pdf<br>6.6 MB | Download |
| 8-channel, 0-10VDC / ±10VDC | V 1.2.0<br>04-Dec-2019 | pdf<br>2.9 MB | Download |
| System Manual Series 750/753<br>Online HTML | | URL | Download |

#### Bid Text

| | | | |
|---|---|---|---|
| 750-597<br>docx - Datei | 05-Mar-2019 | docx<br>17.7 kB | Download |
| 750-597<br>X81 - Datei | 19-Feb-2019 | xml<br>4.8 kB | Download |
| ausschreiben.de 750-597 | | URL | Download |

#### System Description

| | | | |
|---|---|---|---|
| Overview on WAGO-I/O-SYSTEM 750 approvals | | pdf<br>780.2 kB | Download |
| 750/753 Series I/O-System – General Product Information | | pdf<br>1.7 MB | Download |
| Use in Hazardous Environments<br>Term definition, marking and installation regulations | V 1.0.0 | pdf<br>1.0 MB | Download |

#### Additional Information

| | | | |
|---|---|---|---|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 kB | Download |

## Application Notes

#### Application Note CoDeSys 2.3

| | | | |
|---|---|---|---|
| Application Note Library ModuleAccess_01 | 05.01.2016 | zip | Download |

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| | | |
|---|---|---|
| These instructions describe the use of the ModuleAccess_01.lib library using 4 examples. | 29-Jan-2016 | 1.0 MB |

## Libraries

### Library

| | | | |
|---|---|---|---|
| ModuleAccess_01.lib<br>The ModuleAccess_01 library provides both module configuration and access to its process data within a CoDeSys project without the use of WAGO I/O Check. | 1.8.7<br>27-Jan-2020 | zip<br>2.2 MB | Download |

## CAD/CAE-Data

### CAD data

| | | |
|---|---|---|
| 2D/3D Models 750-597 | URL | Download |

### CAE data

| | | |
|---|---|---|
| EPLAN Data Portal 750-597 | URL | Download |
| WSCAD Universe 750-597 | URL | Download |
| ZUKEN Portal 750-597 | URL | Download |

## Environmental Product Compliance

### Compliance Search

| | | |
|---|---|---|
| Environmental Product Compliance 750-597<br>8-channel analog output; 0 … 10 V/±10 VDC | URL | Download |

## Installation Notes

## Product family

**WAGO I/O System 750/753**
Show all products from the family

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