

DOC.IV-7 EDITION: 2025-Q3

# PRODUCT CATALOG

FIBER OTICS & PHOTONICS



**SCOPE:** Optoelectronic Components & Solutions

**APPLICATIONS:** Optical Communication, Consumer & Automotive

**KEY TECH:** VCSELs, PIN Photodiodes, SiGe BICMOS



### **01.** WELCOME TO VI SYSTEMS

VI SYSTEMS (VIS) DEVELOPS AND MANUFACTURES CUTTING-EDGE OPTOELECTRONIC COMPONENTS FOR COMMUNICATION, CONSUMER, AND AUTOMOTIVE APPLICATIONS. LOCATED IN THE HEART OF BERLIN, WE ARE A FABLESS COMPANY SPECIALIZING IN ULTRA-FAST SOLUTIONS FOR OPTICAL INTERCONNECTS AND SENSORS.

OUR PORTFOLIO INCLUDES VERTICAL CAVITY SURFACE-EMITTING LASERS (VCSELS) AND PIN PHOTODIODES DELIVERING SPEEDS UP TO 224 GBPS PER CHANNEL, ALONGSIDE DRIVER AND AMPLIFIER ICS OPERATING UP TO 56 GBPS. OUR LATEST GENERATION COMPONENTS ENABLE ENERGY-EFFICIENT 400 GBPS PAM-4 TRANSMISSION USING SHORT WAVE DIVISION MULTIPLEXING (SWDM).

02 / 09 < PREV

CONTACT



### **02.** TABLE OF CONTENTS

- **02 WELCOME TO VI SYSTEMS**
- **04 TECHNOLOGY & SERVICES**
- **05 VCSEL TRANSMITTER MODULES**
- **06 OPTICAL RECEIVERS & PHOTODETECTORS**
- 07 INTEGRATED CIRCUITS (ICS)
- **08 VCSEL & PHOTODIODE CHIPS**
- **09 CONTACT INFORMATION**

VIS-CATALOG-2025-Q3

CONTACT



### **03.** TECHNOLOGY & SERVICES

#### INTEGRATED OPTICAL SOLUTIONS

WE PAIR STATE-OF-THE-ART SIGE BICMOS INTEGRATED CIRCUITS WITH OUR ULTRAHIGH-SPEED VCSEL AND PIN COMPONENTS TO DELIVER OUTSTANDING PERFORMANCE.

#### WAFER MAPPING SERVICES

COMPREHENSIVE ELECTRICAL AND OPTICAL TESTING ON 2" TO 8" WAFERS AT TEMPERATURES UP TO 150°C.

#### HIGH-FREQUENCY TEST & CHARACTERIZATION

ELECTRO-OPTICAL PERFORMANCE MEASUREMENT WITH DATA MODULATION ANALYSIS UP TO 128 GBIT/S.

VIS-CATALOG-2025-Q3

CONTACT

04 / 09

< PREV

NEXT >

### **04.** VCSEL TRANSMITTER MODULES

#### V25-850M

DATA RATE 28 GBPS (NRZ)

WAVELENGTH 850 NM

FIBER TYPE 50/125 MM

#### V50-850M

DATA RATE 56 GBPS (PAM-4)

WAVELENGTH 850 NM

FIBER TYPE 50/125 MM

#### VM100-850M

DATA RATE 112 GBPS (PAM-4)

WAVELENGTH 850 NM

FIBER TYPE 50/125 MM

#### T56-850

DATA RATE 56 GBPS (NRZ)

WAVELENGTH 850 NM

FIBER TYPE 50/125 MM

VIS-CATALOG-2025-Q3

CONTACT

05 / 09

< PREV

NEXT >



## **05.** OPTICAL RECEIVERS & PHOTODETECTORS

R50-	850
------	-----

DATA RATE 56 GBPS (NRZ)

WAVELENGTH 700-870 NM

FIBER TYPE 50/125 MM

### D30-850M

DATA RATE 112 GBPS (PAM-4)

WAVELENGTH 840-1650 NM

FIBER TYPE 50/125 MM

VIS-CATALOG-2025-Q3 CONTACT 06 / 09 < PREV



### **06.** INTEGRATED CIRCUITS (ICS)

#### **HIGH SPEED VCSEL DRIVERS**

A56-230C

DATA RATE UP TO 56 GBPS

SUPPLY VOLTAGE 3.3 V

POWER 230 MW DISSIPATION

A56-105C

DATA RATE UP TO 56 GBPS

SUPPLY VOLTAGE 3.3 V

POWER 105 MW DISSIPATION

VIS-CATALOG-2025-Q3

CONTACT

07 / 09

< PREV



### **07.** VCSEL & PHOTODIODE CHIPS

#### **HIGH SPEED VCSEL CHIPS**

V25-850C

DATA RATE 28 GBPS (NRZ)

WAVELENGTH 850 NM

PEAK OUTPUT 4 MW **POWER** 

V50-850C

56 GBPS (NRZ) DATA RATE

WAVELENGTH 850 NM

PEAK OUTPUT 4 MW **POWER** 

VIS-CATALOG-2025-Q3

CONTACT

08 / 09

< PREV



### **08.** CONTACT INFORMATION

FOR ADDITIONAL INFORMATION OR TO RECEIVE A QUOTATION, PLEASE CONTACT OUR SALES DEPARTMENT.

ADDRESSVI TELEPHONE+49 30 3083143 30 SYSTEMS GMBH, HARDENBERGSTRASSE 7, 10623 BERLIN, GERMANY

**EMAIL**SALES@V-I-SYSTEMS.COM

**WEB**WWW.V-I-SYSTEMS.COM

NEXT >